

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 : Search time 26.216 Seconds

(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-11

Sequence: 1 ATCCGCGTCGATATCCG 18

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PTCUTS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No	Score	Query Match	Length	DB ID	Description
1	18	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
2	13.8	76.7	64	4 US-08-839-624-16	Sequence 16, Appli
3	13.8	76.7	64	4 US-09-150-812-16	Sequence 16, Appli
4	13.8	76.7	1038	4 US-09-403-768-3	Sequence 3, Appli
5	13.8	76.7	4637	4 US-09-221-017B-818	Sequence 818, App
6	13.8	76.7	6318	4 US-09-453-702B-230	Sequence 230, App
7	13.8	76.7	15239	1 US-08-390-878-17	Sequence 17, Appli
8	13.4	74.4	466	4 US-09-132-316-12	Sequence 12, Appli
9	13.4	74.4	836	4 US-08-971-090-6	Sequence 6, Appli
10	13.4	74.4	836	4 US-08-971-090-7	Sequence 6, Appli
11	13.4	74.4	2310	1 US-08-525-654A-2	Sequence 2, Appli
12	13.4	74.4	2313	1 US-08-525-654A-4	Sequence 4, Appli
13	13.4	74.4	3394	1 US-08-525-654A-136	Sequence 136, App
14	13.4	74.4	28958	1 US-08-258-261B-6	Sequence 7, Appli
15	13.4	74.4	28958	1 US-08-457-837-1	Sequence 6, Appli
16	13.4	74.4	28958	1 US-08-457-837-1	Sequence 6, Appli
17	13.4	74.4	28958	1 US-08-457-837-1	Sequence 6, Appli
18	13.4	74.4	28958	1 US-08-457-837-1	Sequence 6, Appli
19	13.4	74.4	28958	1 US-08-764-233A-4	Sequence 4, Appli
20	13.4	74.4	28958	1 US-08-764-233A-4	Sequence 4, Appli
21	13.4	74.4	28958	1 US-08-729-214-6	Sequence 6, Appli
22	13.4	74.4	28958	3 US-09-028-934-6	Sequence 6, Appli
23	13.4	74.4	49377	1 US-08-764-233A-1	Sequence 1, Appli
24	13.2	73.3	848	4 US-09-221-017B-443	Sequence 443, App
25	13.2	73.3	1320	1 US-08-264-534-8	Sequence 8, Appli
26	13.2	73.3	1320	1 US-08-083-590A-3	Sequence 3, Appli
27	13.2	73.3	1320	1 US-08-465-500-8	Sequence 8, Appli

28	13.2	73.3	1320	2 US-08-346-126-8	Sequence 8, Appli
29	13.2	73.3	1320	2 US-08-346-128-8	Sequence 8, Appli
30	13.2	73.3	1320	3 US-08-532-384-3	Sequence 3, Appli
31	13.2	73.3	1320	4 US-08-893-828-8	Sequence 8, Appli
32	13.2	73.3	2399	4 US-09-221-017B-752	Sequence 752, App
33	13.2	73.3	2677	4 US-09-221-017B-959	Sequence 959, App
34	13.2	73.3	4380	4 US-08-955-565A-3	Sequence 3, Appli
35	13.2	73.3	4800	3 US-09-106-638-1	Sequence 1, Appli
36	13.2	73.3	5561	2 US-08-400-159-1	Sequence 1, Appli
37	13.2	73.3	5561	2 US-08-611-728A-1	Sequence 1, Appli
38	13.2	73.3	34303	2 US-08-735-609-4	Sequence 4, Appli
39	13.2	73.3	34303	2 US-08-735-609-4	Sequence 4, Appli
40	13.2	73.3	34303	3 US-09-315-372-4	Sequence 4, Appli
41	13.2	73.3	34303	3 US-09-244-752-4	Sequence 4, Appli
42	13.2	73.3	34303	3 US-09-245-497-4	Sequence 4, Appli
43	13.2	73.3	34303	3 US-09-562-919-4	Sequence 4, Appli
44	13.2	73.3	34382	2 US-08-374-483-6	Sequence 6, Appli
45	13.2	73.3	35408	4 US-08-973-334-3	Sequence 3, Appli

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2
: Sequence 2, Application US/09103840A
: Patent No. 6294328
: GENERAL INFORMATION:
: APPLICANT: FLEISCHMAN, Robert D.
: APPLICANT: WHITE, Owen R.
: APPLICANT: FRASER, Claire M.
: APPLICANT: VENTER, John C.
: TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
: FILE REFERENCE: 24366-20007.00
: CURRENT APPLICATION NUMBER: US/09/103,840A
: NUMBER OF SEQ ID NOS: 2
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 2
: LENGTH: 4403765
: TYPE: DNA
: ORGANISM: Mycobacterium tuberculosis
: FEATURE:
: OTHER INFORMATION: CDC 1551
: OTHER INFORMATION: "n" bases at various positions throughout the sequence
: US-09-103-840A-2

Query Match          100.0%; Score 18; DB 4; Length 4403765;
Best Local Similarity 100.0%; Pred. No. 0.46;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ATCCGCGTCGATATCCG 18
        |||
Db 3081500 ATCCGCGTCGATATCCG 3081517

RESULT 2
US-08-839-624-16
: Sequence 16, Application US/08839624
: Patent No. 6225045
: GENERAL INFORMATION:
: APPLICANT: Karn et al.
: TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR COMBATING
: TITLE OF INVENTION: HIV INFECTION
: NUMBER OF SEQUENCES: 43
: CORRESPONDENCE ADDRESS:
: ADDRESS: Banner & Witcoff, Inc.
: STREET: One Financial Center
: CITY: Boston
: STATE: Massachusetts
: COUNTRY: USA
```

```

1 ZIP: 02111
2
3 COMPUTER READABLE FORM:
4
5 MEDIUM TYPE: Floppy disk
6 COMPUTER: IBM PC compatible
7 OPERATING SYSTEM: PC-DOS/MS-DOS
8 SOFTWARE: WordPerfect 6.1
9
10 CURRENT APPLICATION DATA:
11 APPLICATION NUMBER: US/08/839,624
12 FILING DATE: April 15, 1997
13 CLASSIFICATION: 435
14
15 PRIOR APPLICATION DATA:
16 APPLICATION NUMBER: PCT/GB96/78191
17 FILING DATE: 15-APR-1996
18
19 PRIOR APPLICATION DATA:
20 APPLICATION NUMBER: US 60/017,268
21 FILING DATE: 13-MAY-1996
22 ATTORNEY/AGENT INFORMATION:
23 NAME: Kathleen M. Williams
24 REGISTRATION NUMBER: 34,380
25 REFERENCE/DOCKET NUMBER: 3255/5390
26 TELECOMMUNICATION INFORMATION:
27 TELEPHONE: 617-345-9100
28 TELEFAX: 617-345-9111
29
30 INFORMATION FOR SEQ ID NO: 16:
31
32 SEQUENCE CHARACTERISTICS:
33 LENGTH: 64 bases
34 TYPE: nucleic acid
35 STRANDEDNESS: single
36 TOPOLOGY: unknown
37
38 MOLECULE TYPE: other nucleic acid
39
40 US-08-839-624-16
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
841
842
843
844
845
846
847
848
849
850
851
852
853
854
855
856
857
858
859
860
861
862
863
864
865
866
867
868
869
870
871
872
873
874
875
876
877
878
879
880
881
882
883
884
885
886
887
888
889
890
891
892
893
894
895
896
897
898
899
900
901
902
903
904
905
906
907
908
909
910
911
912
913
914
915
916
917
918
919
920
921
922
923
924
925
926
927
928
929
930
931
932
933
934
935
936
937
938
939
940
941
942
943
944
945
946
947
948
949
950
951
952
953
954
955
956
957
958
959
960
961
962
963
964
965
966
967
968
969
970
971
972
973
974
975
976
977

```

```

1      REGISTRATION NUMBER: 34,380
2      REFERENCE/DOCKET NUMBER: 3255/5390
3      TELECOMMUNICATION INFORMATION:
4      TELEPHONE: 617-345-9100
5      TELEFAX: 617-345-9111
6      INFORMATION FOR SEQ ID NO: 16:
7      SEQUENCE CHARACTERISTICS:
8      LENGTH: 64 bases
9      TYPE: nucleic acid
10     STRANDEDNESS: single
11     TOPOLOGY: unknown
12     MOLECULE TYPE: other nucleic acid
13     SEQUENCE DESCRIPTION: SEQ ID NO: 16:
14     US-09-150-812-16
15
16     Query Match          76.7%;   Score 13.8;   DB 4;   Length 64;
17     Best Local Similarity 64.7%;   Pred. No. 64;
18     Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;
19
20     QY      2   TGC GCGTCG GTATTCCG 18
21              ||||| ||||| |||||
22     DB      41  UGGCGCGUGCAUUCG 57
23
24 RESULT 4
25 US-09-403-768-3/c
26 : Sequence 3, Application US/09403768
27 : Patent No. 6444804
28 : GENERAL INFORMATION:
29 : APPLICANT: Lam, Joseph S.
30 : APPLICANT: De Kievit, Teresa R.
31 : APPLICANT: Burrows, Lori L.
32 : APPLICANT: Walsh, Andrew
33 : APPLICANT: Matewish, Mauricea
34 : TITLE OF INVENTION: of Core Lipopolysaccharide of Pseudomonas Aëruginoosa
35 : TITLE OF INVENTION:
36 : FILE REFERENCE: 6580-177
37 : CURRENT APPLICATION NUMBER: US/09/403,768
38 : PRIOR FILING DATE: 1999-11-02
39 : PRIOR APPLICATION NUMBER: U.S. 60/045,418
40 : PRIOR FILING DATE: 1997-05-02
41 : PRIOR APPLICATION NUMBER: U.S. 60/046,149
42 : PRIOR FILING DATE: 1997-05-09
43 : NUMBER OF SEQ. ID NOS: 8
44 : SOFTWARE: PatentIn Ver. 2.0
45 : SEQ ID NO 3
46 : LENGTH: 1038
47 : TYPE: DNA
48 : ORGANISM: Pseudomonas aeruginosa rifr (waaf)
49 : FEATURE:
50 : OTHER INFORMATION: Description of Organism: Pseudomonas aeruginosa
51 : OTHER INFORMATION: serotype O5 strain PAO1
52 US-09-403-768-3
53
54     Query Match          76.7%;   Score 13.8;   DB 4;   Length 1038;
55     Best Local Similarity 88.4%;   Pred. No. 70;
56     Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
57
58     QY      2   TGC GCGTCG GTATTCCG 18
59              ||||| ||||| |||||
60     DB      313 TACGCTTCG GTATTCCG 297
61
62 RESULT 5
63 US-09-221-017B-818/c
64 : Sequence 818, Application US/09221017B
65 : Patent No. 6444799
66 : GENERAL INFORMATION:
67 : APPLICANT: Ross, Bruce C.
68 : TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
69 : NUMBER OF SEQUENCES: 1120
70 : CORRESPONDENCE ADDRESS:
71 : ADDRESSEE: MORRISON & FOERSTER

```

STREET: 755 PAGE MILL ROAD
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221.017B
FILING DATE: 23-DEC-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1182
FILING DATE: 31-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1546
FILING DATE: 30-JAN-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP2911
FILING DATE: 09-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU98/01023
FILING DATE: 10-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: Montroy, Gladys H
REGISTRATION NUMBER: 32,430
REFERENCE/DOCKET NUMBER: 27340-20021.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 818:
SEQUENCE CHARACTERISTICS:
LENGTH: 4637 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: UNKNOWN
ORIGINAL SOURCE:
ORGANISM: PORPHYROMONAS GINGIVALIS
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1...4637
US-09-221-017B-818

Query Match 76.7% Score 13.8; DB 4; Length 4637;
Best Local Similarity 88.2%; Pred. No. 74;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 TGGCGTCGCTATTCG 18
||||| |
DB 1388 TGGCGTCGCTATTCG 1372

RESULT 6
US-09-453-702B-230/c
Sequence 230, Application US/09453702B
Patent No. 6365723
GENERAL INFORMATION:
APPLICANT: Blatner, Frederick R.
Burland, Valerie
Perna, Nicole T.
Plunkett, Guy
Welch, Rod
TITLE OF INVENTION: No. 6365723 Sequences of E. coli 0157
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady

STREET: 1 South Pinckney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53701-2113
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 8.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/453.702B
FILING DATE: 03-DEC-1999
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/110,955
FILING DATE: 04-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.95017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 251-5000
TELEFAX: (608) 251-9166
INFORMATION FOR SEQ ID NO: 230:
SEQUENCE CHARACTERISTICS:
LENGTH: 6318
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 230:
US-09-453-702B-230

Query Match 76.7% Score 13.8; DB 4; Length 6318;
Best Local Similarity 88.2%; Pred. No. 74;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 TGGCGTCGCTATTCG 18
||||| |
DB 2760 TGGCGTCGCTATTCG 2744

RESULT 7
US-08-390-878-17/c
Sequence 17, Application US/08390878
Patent No. 5700683
GENERAL INFORMATION:
APPLICANT: Stover, Charles K.
APPLICANT: Mahdian, Gregory G.
TITLE OF INVENTION: VIRULANCE-ATTENUATING GENETIC DELETIONS
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/390,878
FILING DATE: 17-FEB-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Hunter, Tom
REGISTRATION NUMBER: 38,498
REFERENCE/DOCKET NUMBER: 15371A-17

TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/543/9600
TELEFAX: 415/543/5043
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 15239 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-390-878-17

Query Match 76.7%; Score 13.8; DB 1; Length 15239;
Best Local Similarity 88.2%; Pred. No. 76;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 TCGCGGTCGTATTCG 18
||||| ||||| |||
Db 1923 TCGCGCGGTATACCG 1907

RESULT 8
US-09-132-316-12/c
Sequence 12, Application US/09122316B
Patent No. 6444440
GENERAL INFORMATION:
APPLICANT: Young, Paul E.
APPLICANT: Ruben, Steven M.
TITLE OF INVENTION: Vanilloid Receptor-2
FILE REFERENCE: 1488.1110000
CURRENT APPLICATION NUMBER: US/09/132.316B
CURRENT FILING DATE: 1998-08-11
EARLIER APPLICATION NUMBER: US 60/040.163
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: PCT/US98/04493
EARLIER FILING DATE: 1998-03-06
NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 12
LENGTH: 466
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: Unsure
LOCATION: 297
OTHER INFORMATION: May be any nucleotide
FEATURE:
NAME/KEY: Unsure
LOCATION: 322
OTHER INFORMATION: May be any nucleotide
FEATURE:
NAME/KEY: Unsure
LOCATION: 387
OTHER INFORMATION: May be any nucleotide
FEATURE:
NAME/KEY: Unsure
LOCATION: 406
OTHER INFORMATION: May be any nucleotide
FEATURE:
NAME/KEY: Unsure
LOCATION: 427
OTHER INFORMATION: May be any nucleotide
FEATURE:
NAME/KEY: Unsure
LOCATION: 439
OTHER INFORMATION: May be any nucleotide
FEATURE:
NAME/KEY: Unsure
LOCATION: 461
OTHER INFORMATION: May be any nucleotide
US-09-132-316-12

Query Match 74.4%; Score 13.4; DB 4; Length 466;

Best Local Similarity 93.3%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 ATGCGCGTCGTATT 15
||||| ||||| ||
Db 67 ATGCGCGTCGTATT 53

RESULT 9
US-08-971-090-6/c
Sequence 6, Application US/08971090
Patent No. 6228579
GENERAL INFORMATION:
APPLICANT: Zyskind, Judith W.
APPLICANT: Forsyth, R. Allen
TITLE OF INVENTION: METHOD FOR IDENTIFYING MICROBIAL PROLIFERATION GENES
FILE REFERENCE: 07252/008001
CURRENT APPLICATION NUMBER: US/08/971.090
CURRENT FILING DATE: 1997-11-14
NUMBER OF SEQ ID NOS: 3
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 6
LENGTH: 836
TYPE: DNA
ORGANISM: E. coli
US-08-971-090-6

Query Match 74.4%; Score 13.4; DB 4; Length 836;
Best Local Similarity 93.4%; Pred. No. 1.2e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 GCGCGTCGTATTTC 17
||||| ||||| ||
Db 86 GCGCGTCGTATTTC 72

RESULT 10
US-08-971-090-7
Sequence 7, Application US/08971090
Patent No. 6228579
GENERAL INFORMATION:
APPLICANT: Zyskind, Judith W.
APPLICANT: Forsyth, R. Allen
TITLE OF INVENTION: METHOD FOR IDENTIFYING MICROBIAL PROLIFERATION GENES
FILE REFERENCE: 07252/008001
CURRENT APPLICATION NUMBER: US/08/971.090
CURRENT FILING DATE: 1997-11-14
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 836
TYPE: RNA
ORGANISM: E. coli
US-08-971-090-7

Query Match 74.4%; Score 13.4; DB 4; Length 836;
Best Local Similarity 66.7%; Pred. No. 1.2e+02;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

OY 3 GCGCGTCGTATTTC 17
||||| ||||| ||
Db 751 GCGCGTCGTATTTC 765

RESULT 11
US-08-525-654A-2/c
Sequence 2, Application US/08525654A
Patent No. 5736356
GENERAL INFORMATION:
APPLICANT: SANDO, KOICHIRO
APPLICANT: KUMAZAWA, YOSHIYUKI
APPLICANT: YASEUDA, HISASHI
APPLICANT: SEGURO, KATSUYA


```

APPLICANT: MOTOKI, MASAO
TITLE OF INVENTION: TRANSGLUTAMINASE ORIGINATED FROM
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,654A
FILING DATE: 28-SEP-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6/8283
FILING DATE: 28-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7/3876
FILING DATE: 13-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-760-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-1000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2310 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Crassostrea gigas
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1..2310
US-08-525-654A-2

Query Match 74.4%; Score 13.4; DB 1; Length 2310;
Best Local Similarity 93.3%; Pred. No. 1.2e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 4 CCGGTCGTATTCCG 18
DB 1091 CCGGTCGTATTCCG 1077

RESULT 12
US-08-525-654A-4/C
Sequence 4, Application US/08525654A
Patent No. 5736356
GENERAL INFORMATION:
APPLICANT: SANO, KOICHIRO
APPLICANT: KUMAZAWA, YOSHIYUKI
APPLICANT: YASEUDA, HISASHI
APPLICANT: SEGURO, KATSUYA
APPLICANT: MOTOKI, MASAO
TITLE OF INVENTION: TRANSGLUTAMINASE ORIGINATED FROM
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.

```

```

STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,654A
FILING DATE: 28-SEP-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6/8283
FILING DATE: 28-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7/3876
FILING DATE: 13-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-760-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-1000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 2313 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Crassostrea gigas
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1..2054
US-08-525-654A-4

Query Match 74.4%; Score 13.4; DB 1; Length 2313;
Best Local Similarity 94.3%; Pred. No. 1.2e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 4 CCGGTCGTATTCCG 18
DB 1094 CCGGTCGTATTCCG 1080

RESULT 13
US-08-525-654A-136/C
Sequence 136, Application US/08525654A
Patent No. 5736356
GENERAL INFORMATION:
APPLICANT: SANO, KOICHIRO
APPLICANT: KUMAZAWA, YOSHIYUKI
APPLICANT: YASEUDA, HISASHI
APPLICANT: SEGURO, KATSUYA
APPLICANT: MOTOKI, MASAO
TITLE OF INVENTION: TRANSGLUTAMINASE ORIGINATED FROM
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

```

```

: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/525,654A
: FILING DATE: 28-SEP-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 6/8283
: FILING DATE: 28-JAN-1994
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: JP 7/3876
: FILING DATE: 13-JAN-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: OBLON, NORMAN F.
: REGISTRATION NUMBER: 24,618
: REFERENCE/DOCKET NUMBER: 10-760-0 PCT
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 703-413-3000
: TELEFAX: 703-413-2220
: INFORMATION FOR SEQ ID NO: 136:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 3394 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: ORIGINAL SOURCE:
: ORGANISM: Crassostrea gigas
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 305..2617
: US-08-525-654A-136

Query Match 74.4%: Score 13.4: DB 1: Length 3394;
Best Local Similarity 93.3%: Pred. No. 1.2e+02;
Matches 14: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 GCGGTCGGTATTCCG 18
DB 1398 GCGGTCGGTATTCCG 1384

RESULT 14
US-08-258-261B-6/c
: Sequence 6, Application US/08258261B
: Patent No. 5639949
: GENERAL INFORMATION:
: APPLICANT: Schupp, Thomas
: APPLICANT: Ligon, James M.
: APPLICANT: Beck, James Joseph
: APPLICANT: Hill, Dwight Steven
: APPLICANT: Ryals, John Andrew
: APPLICANT: Gaffney, Thomas Deane
: APPLICANT: Lam, Stephen Ting
: APPLICANT: Hammer, Phillip E.
: APPLICANT: Uknes, Scott Joseph
: TITLE OF INVENTION: Genes for the synthesis of
: TITLE OF INVENTION: antipathogenic substances
: NUMBER OF SEQUENCES: 22
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Ciba-Geigy Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: NY
: COUNTRY: USA
: ZIP: 10532
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
```

```

: APPLICATION NUMBER: US/08/258,261B
: FILING DATE: 08-11-N-1994
: CLASSIFICATION: 800
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/457,205
: FILING DATE: 01-JUN-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Elmer, James Scott
: REGISTRATION NUMBER: 36,129
: REFERENCE/DOCKET NUMBER: CGC 1506/CIP3
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 919-541-8614
: TELEFAX: 919-541-8689
: INFORMATION FOR SEQ ID NO: 6:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 28958 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: DNA (genomic)
: HYPOTHETICAL: NO
: ANTI-SENSE: NO
: US-08-258-261B-6

Query Match 74.4%: Score 13.4: DB 1: Length 28958;
Best Local Similarity 93.3%: Pred. No. 1.3e+02;
Matches 14: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GCGGTCGGTATTCCG 17
DB 21961 GCGGTCGGTATTCCG 21947

RESULT 15
US-08-456-837-6/c
: Sequence 6, Application US/08456837
: Patent No. 5643774
: GENERAL INFORMATION:
: APPLICANT: Schupp, Thomas
: APPLICANT: Ligon, James M.
: APPLICANT: Beck, James Joseph
: APPLICANT: Hill, Dwight Steven
: APPLICANT: Ryals, John Andrew
: APPLICANT: Gaffney, Thomas Deane
: APPLICANT: Lam, Stephen Ting
: APPLICANT: Hammer, Phillip E.
: APPLICANT: Uknes, Scott Joseph
: TITLE OF INVENTION: Genes for the synthesis of
: TITLE OF INVENTION: antipathogenic substances
: NUMBER OF SEQUENCES: 22
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Ciba-Geigy Corporation
: STREET: 7 Skyline Drive
: CITY: Hawthorne
: STATE: NY
: COUNTRY: USA
: ZIP: 10532
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentin Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/456,837
: FILING DATE: 01-JUN-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/457,205
: FILING DATE: 01-JUN-1995
: APPLICATION NUMBER: 08/258,261
: FILING DATE: 08-JUN-1994
: ATTORNEY/AGENT INFORMATION:
: NAME: Elmer, James Scott
```

REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: CGC 1506/CIP3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8614
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 28958 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-456-837-6

Query Match 74.4%; Score 13.4; DB 1; Length 28958;
Best Local Similarity 93.3%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3 GCGCGTCGATATTC 17
|||||||
Db 21961 GCGCGTCGATATTC 21947

Search completed: February 17, 2003, 21:23:04
Job time : 1070.22 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 96.2091 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-11

Perfect score: 18
Sequence: 1 ATGGCGGTCGTAATTCG 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 25461826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA.*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.4	80.0	4355	9 US-09-843-250-7	Sequence 7, Appl1
2	14.4	80.0	9706	9 US-09-843-250-5	Sequence 5, Appl1
3	14.4	80.0	14462	9 US-09-843-250-9	Sequence 9, Appl1
4	14	77.8	1380	9 US-09-967-477B-7	Sequence 7, Appl1
5	13.8	76.7	627	9 US-09-738-625-2690	Sequence 2690, Ap
6	13.8	76.7	663	10 US-09-815-242-6331	Sequence 6331, Ap
7	13.8	76.7	1548	9 US-09-738-626-1586	Sequence 1586, Ap
8	13.8	76.7	1935	10 US-09-070-927A-424	Sequence 420, App
9	13.8	76.7	6318	9 US-10-114-170-230	Sequence 230, App
10	13.8	76.7	3309400	9 US-09-738-626-1	Sequence 12, Appl1
11	13.4	74.4	466	9 US-10-137-316-12	Sequence 64, Appl1
12	13.4	74.4	712	9 US-10-074-246-6	Sequence 6, Appl1
13	13.4	74.4	836	10 US-09-805-664-6	Sequence 7, Appl1
14	13.4	74.4	898	10 US-09-791-171-7	Sequence 7, Appl1
15	13.4	74.4	898	10 US-09-983-965-5135	Sequence 5135, Ap
16	13.2	73.3	273	10 US-09-738-626-3145	Sequence 3145, Ap
17	13.2	73.3	444	9 US-09-974-300-7373	Sequence 7373, Ap
18	13.2	73.3	696	10 US-09-974-300-7373	Sequence 1177, Ap
19	13.2	73.3	1021	10 US-09-974-300-1177	

C 20	13.2	73.3	1101	10 US-09-815-242-9823	Sequence 9823, Ap
C 21	13.2	73.3	2394	10 US-09-815-242-4016	Sequence 4016, Ap
C 22	13.2	73.3	4209	9 US-09-712-363-20	Sequence 20, Appl1
C 23	13.2	73.3	5766	9 US-10-098-841-156	Sequence 156, App
C 24	13.2	73.3	32480	9 US-09-847-101B-23	Sequence 23, Appl1
25	13.2	73.3	35871	10 US-09-956-335-2	Sequence 2, Appl1
26	13.2	73.3	35935	10 US-09-725-720-43	Sequence 43, Appl1
27	13.2	73.3	35935	10 US-09-782-378A-4	Sequence 4, Appl1
28	13.2	73.3	35935	10 US-09-782-378A-5	Sequence 5, Appl1
29	13.2	73.3	35937	10 US-09-782-378A-3	Sequence 3, Appl1
30	13.2	73.3	35978	10 US-09-956-335-1	Sequence 1, Appl1
C 31	13.2	73.3	3309400	9 US-09-738-626-1	Sequence 1, Appl1
C 32	13	72.2	1506	10 US-09-815-242-9991	Sequence 9991, Ap
C 33	12.8	71.1	30	9 US-09-953-052-60	Sequence 60, Appl1
C 34	12.8	71.1	33	10 US-09-990-080A-6	Sequence 6, Appl1
35	12.8	71.1	60	10 US-09-990-080-21	Sequence 21, Appl1
36	12.8	71.1	63	10 US-09-990-080-1	Sequence 14, Appl1
37	12.8	71.1	287	10 US-09-294-093B-5484	Sequence 5484, Ap
38	12.8	71.1	431	10 US-09-860-107-2991	Sequence 2991, Ap
39	12.8	71.1	699	10 US-09-815-242-4505	Sequence 4505, Ap
40	12.8	71.1	699	10 US-09-815-242-8471	Sequence 8471, Ap
41	12.8	71.1	879	9 US-09-860-846-11	Sequence 11, Appl1
42	12.8	71.1	879	10 US-09-861-289-11	Sequence 11, Appl1
43	12.8	71.1	915	10 US-09-974-300-2523	Sequence 2523, Ap
C 44	12.8	71.1	1038	10 US-09-917-800A-1479	Sequence 1479, Ap
45	12.8	71.1	1203	10 US-09-974-300-245	Sequence 245, App

ALIGNMENTS

RESULT 1
US-09-843-250-7
; Sequence 7 Application US/09843250
; Publication No. US20030022335A1
; GENERAL INFORMATION:
; APPLICANT: Parales, R.
; APPLICANT: Gibson, D.
; APPLICANT: Resnick, S.
; APPLICANT: Lee, K.
; TITLE OF INVENTION: No. US20030022335A1 naphthalene dioxygenase and methods for:
; FILE REFERENCE: 875 006US2
; CURRENT APPLICATION NUMBER: US/09/843,250
; CURRENT FILING DATE: 2001 04-26
; PRIOR APPLICATION NUMBER: 147/US99/25079
; PRIOR FILING DATE: 1999-10-26
; PRIOR APPLICATION NUMBER: US 60/105,575
; PRIOR FILING DATE: 1998-10-26
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 4355
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: A modified DNA molecule encoding valine at the
; OTHER INFORMATION: position corresponding to the F352 amino acid in
; OTHER INFORMATION: NDO.
US-09-843-250-7
Query Match 80.0%; Score 14.4; DB 9; Length 4355;
Best Local Similarity 93.8%; Pred. No. 22;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 ATGGCGGTCGTAATTC 16
|||||
Db 1271 ATGGCGGTCGTAATTC 1286
|||||
RESULT 2
US-09-843-250-5
; Sequence 5, Application US/09843250
; Publication No. US20030022335A1

```

: GENERAL INFORMATION:
: APPLICANT: Perales, R.
: APPLICANT: Gibson, D.
: APPLICANT: Resnick, S.
: APPLICANT: Lee, K.
: TITLE OF INVENTION: No. US20030022335A1el naphthalene dioxygenase and methods for the
: FILE REFERENCE: 875, 006052
: CURRENT APPLICATION NUMBER: US/09/843,250
: CURRENT FILING DATE: 2001-04-26
: PRIOR APPLICATION NUMBER: PCT/US99/25079
: PRIOR FILING DATE: 1999-10-26
: PRIOR APPLICATION NUMBER: US 60/105,575
: PRIOR FILING DATE: 1998-10-26
: NUMBER OF SEQ ID NOS: 65
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 5
: LENGTH: 9706
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: A modified DNA molecule encoding valine at the
: OTHER INFORMATION: position corresponding to the F352 amino acid in
: OTHER INFORMATION: NDO.
US-09-843-250-5

```

```

Query Match      80.0%; Score 14.4; DB 9; Length 9706;
Best Local Similarity 93.8%; Pred. No. 22;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```
OY      1 ATGCGCGTCGATTTC 16
          |||||
Db      1321 ATGCGCGTCGATTTC 1336

```

```

RESULT 3
US-09-843-250-9
: Sequence 9, Application US/09843250
: Publication No. US20030022335A1
: GENERAL INFORMATION:
: APPLICANT: Perales, R.
: APPLICANT: Gibson, D.
: APPLICANT: Resnick, S.
: APPLICANT: Lee, K.
: TITLE OF INVENTION: No. US20030022335A1el naphthalene dioxygenase and methods for the
: FILE REFERENCE: 875, 006052
: CURRENT APPLICATION NUMBER: US/09/843,250
: CURRENT FILING DATE: 2001-04-26
: PRIOR APPLICATION NUMBER: PCT/US99/25079
: PRIOR FILING DATE: 1999-10-26
: PRIOR APPLICATION NUMBER: US 60/105,575
: PRIOR FILING DATE: 1998-10-26
: NUMBER OF SEQ ID NOS: 65
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 9
: LENGTH: 14462
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: A modified DNA molecule encoding valine at the
: OTHER INFORMATION: position corresponding to the F352 amino acid in
: OTHER INFORMATION: NDO.
US-09-843-250-9

```

```

Query Match      80.0%; Score 14.4; DB 9; Length 14462;
Best Local Similarity 93.8%; Pred. No. 22;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```
OY      1 ATGCGCGTCGATTTC 16
          |||||
Db      4189 ATGCGCGTCGATTTC 4204

```

RESULT 4

```

US-09-967-477B-7
: Sequence 7, Application US/09967477B
: Patent No. US20020156254A1
: GENERAL INFORMATION:
: APPLICANT: Xiao Qiu
: APPLICANT: Haiping Hong
: TITLE OF INVENTION: FAD4, FAD5, FAD5-2, AND FAD6, NOVEL
: FILE REFERENCE: BNZ-001
: CURRENT APPLICATION NUMBER: US/09/967,477B
: CURRENT FILING DATE: 2002-04-16
: PRIOR APPLICATION NUMBER: 60/236,303
: PRIOR FILING DATE: 2000-09-28
: PRIOR APPLICATION NUMBER: 60/297,562
: PRIOR FILING DATE: 2001-06-12
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 7
: LENGTH: 1380
: TYPE: DNA
: ORGANISM: Thraustochytrium sp.
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)...(1380)
US-09-967-477B-7

```

```

Query Match      77.8%; Score 14; DB 9; Length 1380;
Best Local Similarity 100.0%; Pred. No. 38;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```
OY      3 GCGCGTCGATTTC 16
          |||||
Db      1145 GCGCGTCGATTTC 1158

```

```

RESULT 5
US-09-738-626-2690/c
: Sequence 2690, Application US/09738626
: Publication No. US20020197605A1
: GENERAL INFORMATION:
: APPLICANT: NAKAGAWA, SATOSHI
: APPLICANT: MIZOGUCHI, HIROSHI
: APPLICANT: ANDO, SEIKO
: APPLICANT: HAYASHI, MIKIRO
: APPLICANT: OCHIAI, KEIKO
: APPLICANT: YOKOI, HARUHIKO
: APPLICANT: TATEISHI, NAOKO
: APPLICANT: SENO, AKIHiko
: APPLICANT: IKEDA, MASATU
: APPLICANT: OZAKI, AKIO
: TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
: FILE REFERENCE: 249-125
: CURRENT APPLICATION NUMBER: US/09/738,626
: CURRENT FILING DATE: 2000-12-18
: PRIOR APPLICATION NUMBER: JP 99/377484
: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: JP 00/159162
: PRIOR FILING DATE: 2000-04-07
: PRIOR APPLICATION NUMBER: JP 00/280988
: PRIOR FILING DATE: 2000-08-03
: NUMBER OF SEQ ID NOS: 7059
: SOFTWARE: PatentIn ver. 3.0
: SEQ ID NO 2690
: LENGTH: 627
: TYPE: DNA
: ORGANISM: Corynebacterium glutamicum
US-09-738-626-2690

```

```

Query Match      76.7%; Score 13.8; DB 9; Length 627;
Best Local Similarity 88.2%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```
OY      2 TGGCGTCGATTCCG 18
```

DB 469 TCGCGATCGGATTCG 453

RESULT 6

US-09-815-242-6331

Sequence 6331, Application US/09815242

Patent No. US20020061569A1

GENERAL INFORMATION:

APPLICANT: Haselbeck, Robert

APPLICANT: Ohlsen, Karl L.

APPLICANT: Zyskind, Judith W.

APPLICANT: Wall, Daniel

APPLICANT: Trawick, John D.

APPLICANT: Carr, Grant J.

APPLICANT: Yamamoto, Robert T.

APPLICANT: Xu, H. Howard

TITLE OF INVENTION: Identification of Essential Genes in

FILE REFERENCE: ELITRA.011A

CURRENT APPLICATION NUMBER: US/09/815,242

PRIOR FILING DATE: 2001-03-21

PRIOR APPLICATION NUMBER: 60/191,078

PRIOR FILING DATE: 2000-03-21

PRIOR APPLICATION NUMBER: 60/206,848

PRIOR FILING DATE: 2000-05-23

PRIOR APPLICATION NUMBER: 60/207,727

PRIOR FILING DATE: 2000-05-26

PRIOR APPLICATION NUMBER: 60/242,578

PRIOR FILING DATE: 2000-10-23

PRIOR APPLICATION NUMBER: 60/253,625

PRIOR FILING DATE: 2000-11-27

PRIOR APPLICATION NUMBER: 60/257,931

PRIOR FILING DATE: 2000-12-22

PRIOR APPLICATION NUMBER: 60/269,308

PRIOR FILING DATE: 2001-02-16

NUMBER OF SEQ ID NOS: 14110

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 6331

LENGTH: 663

TYPE: DNA

ORGANISM: Escherichia coli

FEATURE:

NAME/KEY: CDS

LOCATION: (1)...(663)

US-09-815-242-6331

Query Match

Best Local Similarity 88.2%; Pred. No. 51;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Score 13.8; DB 10; Length 663;

2 TGGCGTGGCTATTCCG 18

DB 224 TGGCGACGCTATTCCG 240

RESULT 7

US-09-738-626-1586/C

Sequence 1586, Application US/09738626

Publication No. US20020197605A1

GENERAL INFORMATION:

APPLICANT: NAKAGAWA, SATOSHI

APPLICANT: MIZOGUCHI, HITOSHI

APPLICANT: ANDO, SEIKO

APPLICANT: HAYASHI, MIKIRO

APPLICANT: OCHIAI, KEIKO

APPLICANT: YOKOI, HARUHIKO

APPLICANT: TATEISHI, NAKO

APPLICANT: SEMOH, AKIHIRO

APPLICANT: IKEDA, MASATO

APPLICANT: OZAKI, AKIO

TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES

FILE REFERENCE: 249-125

CURRENT APPLICATION NUMBER: US/09/738,626

CURRENT FILING DATE: 2000-12-18

PRIOR APPLICATION NUMBER: JP 99/377484

PRIOR FILING DATE: 1999-12-16

PRIOR APPLICATION NUMBER: JP 00/159162

PRIOR FILING DATE: 2000-04-07

PRIOR APPLICATION NUMBER: JP 00/280988

PRIOR FILING DATE: 2000-08-03

NUMBER OF SEQ ID NOS: 7059

SOFTWARE: PatentIn ver. 3.0

SEQ ID NO 1586

LENGTH: 1548

TYPE: DNA

ORGANISM: Corynebacterium glutamicum

US-09-738-626-1586

Query Match

Best Local Similarity 88.2%; Pred. No. 50;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Score 13.8; DB 9; Length 1548;

QY 1 ATGCGGCTGGATTCG 17

DB 425 ATGCGCTGGATTCG 409

RESULT 8

US-09-070-927A-424

Sequence 424, Application US/09070927A

Patent No. US20020120116A1

GENERAL INFORMATION:

APPLICANT: Charles A. Kunsch

Patrick J. Dillon

Steven Barash

TITLE OF INVENTION: Enterococcus faecalis polynucleotides and Polypeptides

NUMBER OF SEQUENCES: 982

CORRESPONDENCE ADDRESS:

ADDRESSER: man Genome Sciences, Inc.

STREET: 9410 Key West Avenue

CITY: Rockville

STATE: Maryland

COUNTRY: USA

ZIP: 20850

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.44Mb storage

COMPUTER: HP Vectra 486/33

OPERATING SYSTEM: MS-DOS version 6.2

SOFTWARE: As'11 Text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/070,927A

FILING DATE: 04 May-2000

CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 60/046,655

FILING DATE: 1997-05-16

APPLICATION NUMBER: 60/044,031

FILING DATE: 1997-05-06

APPLICATION NUMBER: 60/066,009

FILING DATE: 1997-11-14

ATTORNEY/AGENT INFORMATION:

NAME: Kenley K. Hoover

REGISTRATION NUMBER: 40,302

REFERENCE/DOCKET NUMBER: PH369

TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 309-8504

TELEFAX: (301) 309-8512

INFORMATION FOR SEQ ID NO: 424:

SEQUENCE CHARACTERISTICS:

LENGTH: 1935 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear

SEQUENCE DESCRIPTION: SEQ ID NO: 424:

US-09-070-927A-424

```

? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: unsure
? LOCATION: 297
? OTHER INFORMATION: May be any nucleotide
? FEATURE:
? NAME/KEY: Unsure
? LOCATION: 322
? OTHER INFORMATION: May be any nucleotide
? FEATURE:
? NAME/KEY: Unsure
? LOCATION: 387
? OTHER INFORMATION: May be any nucleotide
? FEATURE:
? NAME/KEY: unsure
? LOCATION: 406
? OTHER INFORMATION: May be any nucleotide

```

```

; FEATURE:
; NAME/KEY: Unsure
; LOCATION: 427
; OTHER INFORMATION: May be any nucleotide
; FEATURE:
; NAME/KEY: Unsure
; LOCATION: 439
; OTHER INFORMATION: May be any nucleotide
; FEATURE:
; NAME/KEY: Unsure
; LOCATION: 461
; OTHER INFORMATION: May be any nucleotide
US-10-137-316-12

Query Match
Best Local Similarity 93.3%; Pred. No. 87;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

74.4%; Score 13.4; DB 9; Length 466;

QY 1 ATGCGGTCGTATTC 15
Db 67 ATGCGGTCGTGTT 53

RESULT 12
US-10-074-246-64
; Sequence 64, Application US/10074246
; Publication No. US20030027174A1
; GENERAL INFORMATION:
; APPLICANT: Universit  Catholique de Louvain
; TITLE OF INVENTION: Identification of nucleotide sequences specific for mycobacterial
; TITLE OF INVENTION: pseudomonas species, development of differential diagnosis strat
; TITLE OF INVENTION: mycobacterial and pseudomonas species
; FILE REFERENCE: UCL-021-US
; CURRENT APPLICATION NUMBER: US/10/074,246
; CURRENT FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/269,848
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 60/292,509
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: EP 01870030.2
; PRIOR FILING DATE: 2001-02-19
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64
; LENGTH: 712
; TYPE: DNA
; ORGANISM: Mycobacterium szulgai
US-10-074-246-64

Query Match
Best Local Similarity 93.3%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

74.4%; Score 13.4; DB 9; Length 712;

QY 3 GCGCGTCGTATTC 17
Db 38 GCTGTCGTGATTC 52

RESULT 13
US-09-805-664-6/c
; Sequence 6, Application US/09805664
; Patent No. US20020058260A1
; GENERAL INFORMATION:
; APPLICANT: zyskind, Judith W.
; APPLICANT: Forsyth, R. Allyn
; FILE REFERENCE: 07252/008001
; CURRENT APPLICATION NUMBER: US/09/805,664
; CURRENT FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: US 08/971,090
; PRIOR FILING DATE: 1997-11-14
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 6
; LENGTH: 836
; TYPE: DNA
; ORGANISM: E. coli
US-09-805-664-6

Query Match
Best Local Similarity 97.3%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

74.4%; Score 13.4; DB 10; Length 836;

QY 3 GCGCGTCGTATTC 17
Db 86 GCGCGTCAGATTC 72

RESULT 14
US-09-805-664-7
; Sequence 7, Application US/09805664
; Patent No. US20020058260A1
; GENERAL INFORMATION:
; APPLICANT: zyskind, Judith W.
; APPLICANT: Forsyth, R. Allyn
; TITLE OF INVENTION: METHOD FOR IDENTIFYING MICROBIAL PROLIFERATION GENES
; FILE REFERENCE: 07252/008001
; CURRENT APPLICATION NUMBER: US/09/805,664
; CURRENT FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: US 08/971,090
; PRIOR FILING DATE: 1997-11-14
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 836
; TYPE: RNA
; ORGANISM: E. coli
US-09-805-664-7

Query Match
Best Local Similarity 66.7%; Pred. No. 86;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;

74.4%; Score 13.4; DB 10; Length 836;

QY 3 GCGCGTCGTATTC 17
Db 751 GCGCGUCAGAUUCC 765

RESULT 15
US-09-791-171-7
; Sequence 7, Application US/09791171
; Patent No. US2002004336A1
; GENERAL INFORMATION:
; APPLICANT: ANDERSEN, Peter
; APPLICANT: NIELSEN, Rikke
; APPLICANT: OETTINGER, Thomas
; APPLICANT: RASMUSSEN, Peter Birk
; APPLICANT: ROSENKRANDS, Ida
; APPLICANT: WEIDINGH, Karin
; APPLICANT: FLORIO, Walter
; TITLE OF INVENTION: NUCLEIC ACIDS FRAGMENTS AND POLYPEPTIDE FRAGMENTS
; TITLE OF INVENTION: DERIVED FROM M. TUBERCULOSIS
; FILE REFERENCE: 670001-2002.1
; CURRENT APPLICATION NUMBER: US/09/791,171
; CURRENT FILING DATE: 2001-02-20
; PRIOR APPLICATION NUMBER: 09/050,739
; PRIOR FILING DATE: 1998-03-30
; PRIOR APPLICATION NUMBER: 0376/97
; PRIOR FILING DATE: 1997-04-02
; PRIOR APPLICATION NUMBER: 1277/97
; PRIOR FILING DATE: 1997-11-10
; PRIOR APPLICATION NUMBER: 60/044,624
; PRIOR FILING DATE: 1997-04-18
; PRIOR APPLICATION NUMBER: 60/070,488
; PRIOR FILING DATE: 1998-01-05
; NUMBER OF SEQ ID NOS: 173
```


; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 7
; LENGTH: 898
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
us-09-791-171-7

Query Match 74.4%; Score 13.4; DB 10; Length 898;
Best Local Similarity 93.3%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CGCGTCGGGTATTCG 18
|||||||
Db 509 CGCGTCGGCATTCG 523

Search completed: February 18, 2003, 06:56:27
Job time : 853.209 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 29.1289 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-12

Perfect score: 20

Sequence: 1 GCGCGTCGATTCGACCG 20

Scoring table: IDENTITY_NUC

Searched: 441362 seqs, 153318381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Issued_Patents_NA:*

1: /cgn2_6/prodata/2/ina/5A_COMB.seq:*

2: /cgn2_6/prodata/2/ina/5B_COMB.seq:*

3: /cgn2_6/prodata/2/ina/6A_COMB.seq:*

4: /cgn2_6/prodata/2/ina/6B_COMB.seq:*

5: /cgn2_6/prodata/2/ina/PCTUS_COMB.seq:*

6: /cgn2_6/prodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appl
2	15.2	76.0	1439	4 US-09-056-556-167	Sequence 167, App
3	15.2	76.0	1439	4 US-09-072-596-162	Sequence 162, App
4	15.2	76.0	4800	3 US-09-106-638-1	Sequence 1, Appl
5	14.8	74.0	4403765	4 US-09-103-840A-2	Sequence 2, Appl
6	14.4	72.0	2310	1 US-08-525-654A-2	Sequence 4, Appl
7	14.4	72.0	2313	1 US-08-525-654A-4	Sequence 2, Appl
8	14.4	72.0	3394	1 US-08-525-654A-136	Sequence 136, App
9	14.2	71.0	700	4 US-09-216-097-7	Sequence 7, Appl
10	14.2	71.0	1026	4 US-07-751-891B-24	Sequence 24, Appl
11	14.2	71.0	1028	4 US-08-118-200-1	Sequence 1, Appl
12	14.2	71.0	1028	4 US-08-458-745-1	Sequence 1, Appl
13	14.2	71.0	2471	1 US-08-920-812-14	Sequence 14, Appl
14	14.2	71.0	2471	1 US-08-920-827-14	Sequence 14, Appl
15	14.2	71.0	2471	1 US-08-921-177-14	Sequence 14, Appl
16	14.2	71.0	2471	1 US-08-362-577C-14	Sequence 14, Appl
17	14.2	71.0	2471	2 US-08-920-828-14	Sequence 14, Appl
18	14.2	71.0	3836	2 US-08-216-260-1	Sequence 1, Appl
19	14.2	71.0	4188	4 US-07-751-891B-2	Sequence 2, Appl
20	14.2	71.0	4242	3 US-07-705-490-2	Sequence 2, Appl
21	14.2	71.0	4637	4 US-09-221-017B-818	Sequence 818, App
22	14.2	71.0	5222	4 US-07-751-891B-23	Sequence 23, Appl
23	14.2	71.0	28958	1 US-08-258-261B-6	Sequence 6, Appl
24	14.2	71.0	28958	1 US-08-456-837-6	Sequence 6, Appl
25	14.2	71.0	28958	1 US-08-457-342-6	Sequence 6, Appl
26	14.2	71.0	28958	1 US-08-457-646A-6	Sequence 6, Appl
27	14.2	71.0	28958	1 US-08-458-076A-6	Sequence 6, Appl

28	14.2	71.0	28958	1 US-08-764-233A-4	Sequence 4, Appl
29	14.2	71.0	28958	1 US-08-457-335A-6	Sequence 6, Appl
30	14.2	71.0	28958	1 US-08-729-214-6	Sequence 6, Appl
31	14.2	71.0	28958	3 US-09-028-934-6	Sequence 6, Appl
32	14.2	71.0	49377	1 US-08-764-233A-1	Sequence 1, Appl
33	14.2	71.0	49795	4 US-09-453-702B-60	Sequence 60, Appl
34	13.8	69.0	863	4 US-09-697-367-3	Sequence 3, Appl
35	13.8	69.0	1038	4 US-09-403-768-3	Sequence 3, Appl
36	13.6	68.0	311	3 US-08-937-580-20	Sequence 20, Appl
37	13.6	68.0	311	4 US-09-336-039-20	Sequence 20, Appl
38	13.6	68.0	390	4 US-08-651-155B-4	Sequence 4, Appl
39	13.6	68.0	1005	1 US-08-482-385A-2	Sequence 2, Appl
40	13.6	68.0	1705	4 US-08-702-665A-2	Sequence 2, Appl
41	13.6	68.0	1714	4 US-09-151-102-3	Sequence 3, Appl
42	13.6	68.0	1714	4 US-08-929-846-3	Sequence 3, Appl
43	13.6	68.0	2159	3 US-08-286-870A-7	Sequence 7, Appl
44	13.6	68.0	2232	4 US-08-810-712-8	Sequence 8, Appl
45	13.6	68.0	2728	1 US-08-482-385A-5	Sequence 5, Appl

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen K.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      100.0%; Score 20; DB 4; Length 4403765;
Best local similarity 100.0%; Pred. No. 0.081;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCGCGTCGATTCGACCG 20
Db 3081502 GCGCGTCGATTCGACCG 3081521

RESULT 2
US-09-056-556-167
; Sequence 167, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skelky, Yasir A.W.
; APPLICANT: Dillon, David C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; CORRESPONDENCE ADDRESS:
; ADDRESS: SEED AND BERRY LLP
; STREET: 6300 Columbia Center, 701 Fifth Avenue
; CITY: Seattle
; STATE: Washington
```

COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 167:
SEQUENCE CHARACTERISTICS:
LENGTH: 1439 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-167

Query Match 76.0%; Score 15.2; DB 4; Length 1439;
Best Local Similarity 85.0%; Pred. No. 21;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCGGTCGCTATTCGACCG 20
11111111111111111111
Db 548 GCGCTCGCTGTTCCGCCG 567

RESULT 3
US-09-072-596-162
Sequence 162, Application US/09072596
Patent No. 6458466
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skelky, Yasir A.W.
APPLICANT: Dillon, David C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedvyik, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED AND BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104 7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 162:
SEQUENCE CHARACTERISTICS:
LENGTH: 1439 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-162

Query Match 76.0%; Score 15.2; DB 4; Length 1439;
Best Local Similarity 85.0%; Pred. No. 21;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCGGTCGCTATTCGACCG 20
11111111111111111111
Db 548 GCGCTCGCTGTTCCGCCG 567

RESULT 4
US-09-106-638-1/c
Sequence 1, Application US/09106638
Patent No. 6093556
GENERAL INFORMATION:
APPLICANT: Kanji NAKAMURA
APPLICANT: Hiroaki ISHIDA
TITLE OF INVENTION: GENE RECOMBINANT WITH BIODEGRADABILITY
TITLE OF INVENTION: FOR CHLORINATED ETHYLENE AND BIO-TREATMENT OF
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESS: E: C/O KURITA WATER INDUSTRIES LTD.
STREET: 4-7, Nishi-Shinjuku 3-Chome
CITY: Shinjuku-Ku
STATE: Tokyo
COUNTRY: Japan
ZIP: 160-0023
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk, 3.5 inches, 1.44mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: MS-10S
SOFTWARE:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/106,638
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 174996/1997, Japan
FILING DATE: 30-June-1997
APPLICATION NUMBER: 174997/1997, Japan
FILING DATE: 30-June-1997
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4800 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Pseudomonas putida
INDIVIDUAL ISOLATE: KWI-9
FEATURE:
NAME/KEY: peptide
LOCATION: 127..345
IDENTIFICATION METHOD: E
OTHER INFORMATION: phe2 of phenol-hydroxylase
FEATURE:
NAME/KEY: peptide
LOCATION: 434..1429
IDENTIFICATION METHOD: F
OTHER INFORMATION: phe4 of phenol-hydroxylase
FEATURE:
NAME/KEY: peptide

```
LOCATION: 1440,1712
IDENTIFICATION METHOD: E
OTHER INFORMATION: phe of phenol-hydroxylase
FEATURE:
NAME/KEY: peptide
LOCATION: 1754,3268
IDENTIFICATION METHOD: E
OTHER INFORMATION: phe of phenol-hydroxylase
FEATURE:
NAME/KEY: peptide
LOCATION: 3301,3660
IDENTIFICATION METHOD: E
OTHER INFORMATION: phe of phenol-hydroxylase
FEATURE:
NAME/KEY: peptide
LOCATION: 3689,4756
IDENTIFICATION METHOD: E
OTHER INFORMATION: phe of phenol-hydroxylase
US-09-106-638-1
```

```
Query Match 76.0%; Score 15.2; DB 3; Length 4800;
Best Local Similarity 85.0%; Pred. No. 22;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
OY 1 GCGCGTCGATTCGACCG 20
    ||||| ||||| |||||
DB 48 GCGCGTCGATTCGACCG 29
```

```
RESULT 5
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: ERASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2
```

```
Query Match 74.0%; Score 14.8; DB 4; Length 4403765;
```

```
Best Local Similarity 85.0%; Pred. No. 36;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
OY 1 GCGCGTCGATTCGACCG 20
    ||||| ||||| |||||
DB 3063798 GCGCGTCGATTCGACCG 3063779
```

```
RESULT 6
US-08-525-654A-2/c
; Sequence 2, Application US/08525654A
; Patent No. 5736356
; GENERAL INFORMATION:
; APPLICANT: SANO, KOICHIRO
; APPLICANT: KUMAZAWA, YOSHIYUKI
; APPLICANT: YASEUDA, HISASHI
; APPLICANT: SEGURO, KATSUYA
```

```
APPLICANT: MOTOKI, MASAO
TITLE OF INVENTION: TRANSGLUTAMINASE ORIGINATED FROM
TITLE OF INVENTION: CRASSOSTREA GIGAS
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,654A
FILING DATE: 28-SEP-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6/8283
FILING DATE: 28-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7/3876
FILING DATE: 13-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-760-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 2310 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Crassostrea gigas
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..2310
US-08-525-654A-2
```

```
Query Match 72.0%; Score 14.4; DB 1; Length 2310;
```

```
Best Local Similarity 94.8%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 2 CCGGTCGATTCGCA 17
    ||||| ||||| |||||
DB 1091 CCGGTCGATTCGCA 1076
```

```
RESULT 7
US-08-525-654A-4/c
; Sequence 4, Application US/08525654A
; Patent No. 5736356
; GENERAL INFORMATION:
; APPLICANT: SANO, KOICHIRO
; APPLICANT: KUMAZAWA, YOSHIYUKI
; APPLICANT: YASEUDA, HISASHI
; APPLICANT: SEGURO, KATSUYA
; APPLICANT: MOTOKI, MASAO
; TITLE OF INVENTION: TRANSGLUTAMINASE ORIGINATED FROM
; TITLE OF INVENTION: CRASSOSTREA GIGAS
; NUMBER OF SEQUENCES: 150
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; ADDRESS: P.C.
```

```

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/525,654A
FILING DATE: 28-SEP-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 6/8283
FILING DATE: 28-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: JP 7/3876
FILING DATE: 13-JAN-1995
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 10-760-0 PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 136:
SEQUENCE CHARACTERISTICS:
LENGTH: 3394 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Crassostrea gigas
FEATURE:
NAME/KEY: CDS
LOCATION: 305..2617
US-08-525-654A-136

Query Match 72.0%; Score 14.4; DB 1, Length 3394;
Best Local Similarity 9 8%; Pred. No. 58;
Matches 15; Conservati. 0; Mismatches 1 Indels 0; Gaps 0

QY 2 CGCGTCGGTATTCGCA 17
| | | | | | | | | | | | | | | | | | | | |
DB 1398 CGGTCGGTATTCGCA 1383

RESULT 9
US-09-236-097-7
Sequence 7, Application US/092600 /
Patent No. 6335165
GENERAL INFORMATION:
APPLICANT: NIK NAVOT ET AL.
TITLE OF INVENTION: METHODS AND KITS FOR CHARACTERIZING GC
CONTENT OF NUCLEIC ACID SEQUENCES
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Mark M. Friedman c/o Anthony Castorina
STREET: 20001 Jefferson Davis Highway, Suite 207
CITY: Arlington
STATE: Virginia
COUNTRY: United States of America
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: 1.44 megabyte, 3.5" microdisk
COMPUTER: twinhead* Slimote-890TX
OPERATING SYSTEM: MS DOS version 6.2,
SOFTWARE: word for windows version 3.11
SOFTWARE: an ASCII file
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/236,097
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

```

ATTORNEY/AGENT INFORMATION:
NAME: Friedmam, Mark M.
REGISTRATION NUMBER: 33,883
REFERENCE/DOCKET NUMBER: 128/33
TELECOMMUNICATION INFORMATION:
TELEPHONE: 972-3-5625553
TELEFAX: 972-3-5625554
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 700
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-09-236-097-7

Query Match 71.0%; Score 14.2; DB 4; Length 700;
Best Local Similarity 84.2%; Pred. No. 68;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GCGCGTGTATTCGACC 19
||||| ||| ||| |||
DB 187 GCGCGTGTCTTTCGACC 205

RESULT 10
US-07-751-891B-24
Sequence 24, Application US/07751891B
Patent No. 6180337
GENERAL INFORMATION:
APPLICANT: Caskey, C. T.
Nelson, David L.
Pieretli, Maura
Warren, Stephen T.
Oostra, Ben A.
Fu, Ying-hui
TITLE OF INVENTION: Diagnosis of the Fragile X Syndrome
NUMBER OF SEQUENCES: 24
CORRESPONDENCE ADDRESS:
ADDRESSEE: Thomas D. Paul
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/751,891B
FILING DATE: 29-Aug-1991
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5350
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
TELEX: 762829
INFORMATION FOR SEQ ID NO: 24:
SEQUENCE CHARACTERISTICS:
LENGTH: 1026 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 24:
US-07-751-891B-24

Query Match 71.0%; Score 14.2; DB 4; Length 1026;

Best Local Similarity 84.2%; Pred. No. 70;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GCGCGTGTATTCGACC 19
||||| ||| ||| |||
DB 98 GCGCGTGTCTTTCGACC 116

RESULT 11
US-08-118-200-1
Sequence 1, Application US/08118200
Patent No. 6197500
GENERAL INFORMATION:
APPLICANT: SUTHERLAND Grant R
APPLICANT: RICHARDS, Albert I
APPLICANT: SCHLESINGER, David
APPLICANT: NAGARAJA, Kamaliah
APPLICANT: KREMER, Eric J
APPLICANT: YU, Sui
APPLICANT: BAKER, Elizabeth
APPLICANT: MULREY, John C
APPLICANT: MANDEL, Jean-Louis
APPLICANT: PRITCHARD, Melanie April
APPLICANT: LYNCH, Michael
TITLE OF INVENTION: DNA SEQUENCES RELATED TO ISOLATED
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SWECKER & MATTHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22313-1404
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/118,200
FILING DATE: 09-SEP-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/802,650
FILING DATE: 05-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/672,232
FILING DATE: 20-MAR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/638,518
FILING DATE: 04-JAN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/966,517
FILING DATE: 23-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Crane-Feury, Sharon E
REGISTRATION NUMBER: 36,113
REFERENCE/DOCKET NUMBER: 020160-164
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1028 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-118-200-1

Query Match 71.0%; Score 14.2; DB 4; Length 1028;
Best Local Similarity 84.2%; Pred. No. 70;

Matches 16: Conservative 0: Mismatches 3: Indels 0: Gaps 0:

OY 1 GCGCGTGGTATTCGACC 19
111111 11 11 11111
Db 97 GCGCGTGTCTTTCGACC 115

RESULT 12

US-08-458-745-1
Sequence 1, Application US/08458745
Patent No. 6242576

GENERAL INFORMATION:

APPLICANT: SUTHERLAND, Grant R
APPLICANT: RICHARDS, Robert I
APPLICANT: SCHLESSINGER, David
APPLICANT: NAGARAJA, Ramesh
APPLICANT: KREMER, Eric J
APPLICANT: YU, Sui
APPLICANT: BAKER, Elizabeth
APPLICANT: MULLEY, John C
APPLICANT: MANDEL, Jean-Louis
APPLICANT: PRITCHARD, Melanie April
APPLICANT: LYNCH, Michael
TITLE OF INVENTION: DNA SEQUENCES RELATED TO ISOLATED
TITLE OF INVENTION: FRAGILE X SYNDROME
NUMBER OF SEQUENCES: 13
CORRESPONDENCE ADDRESS:
ADDRESSEE: BURNS, DOANE, SNECKER & MATHIS
STREET: P.O. Box 1404
CITY: Alexandria
STATE: Virginia
COUNTRY: United States
ZIP: 22131-1404

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/458,745
FILING DATE: 02-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/118,200
FILING DATE: 09-SEP-1993
APPLICATION NUMBER: US 07/802,650
FILING DATE: 05-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/672,232
FILING DATE: 20-MAR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/638,518
FILING DATE: 04-JAN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/966,517
FILING DATE: 23-DEC-1992

ATTORNEY/AGENT INFORMATION:

NAME: Crane-Ferry, Sharon E
REGISTRATION NUMBER: 36,113
REFERENCE/DOCKET NUMBER: 020160-164
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 836-6620
TELEFAX: (703) 836-2021
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1028 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-458-745-1

Query Match 71.0%; Score 14.2; DP 4; Length 1028;

Best Local Similarity 84.2%; Pred. No. 70;
Matches 16: Conservative 0: Mismatches 3: Indels 0: Gaps 0:

OY 1 GCGCGTGGTATTCGACC 19
111111 11 11 11111
Db 97 GCGCGTGTCTTTCGACC 115

RESULT 13

US-08-920-812-14
Sequence 14, Application US/08920812
Patent No. 5763188

GENERAL INFORMATION:

APPLICANT: Ohno, Tsuneya
APPLICANT: Matsuhisa, Akio
APPLICANT: Uehara, Hirotsugu
APPLICANT: Iida, Soji
TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/920,812
FILING DATE: 29-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,577
FILING DATE: 27-MAR-1995

ATTORNEY/AGENT INFORMATION:

NAME: Rin-laures, Li-Hsien
REGISTRATION NUMBER: 33,547
REFERENCE/DOCKET NUMBER: 19036/32420
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-4856
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 2471 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Pseudomonas aeruginosa
STRAIN: Clinical Isolate P2-7
US-08-920-812-14

Query Match 71.0%; Score 14.2; DB 1; Length 2471;
Best Local Similarity 84.2%; Pred. No. 73;
Matches 16: Conservative 0: Mismatches 3: Indels 0: Gaps 0:

OY 1 GCGCGTGGTATTCGACC 19
1111 11 11 11111
Db 1632 GCGCTTCATATTTCGACC 1650

RESULT 14

US-08-920-827-14
Sequence 14, Application US/08920827
Patent No. 5770375
GENERAL INFORMATION:
APPLICANT: Ohno, Tsuneya

APPLICANT: Matsuhisa, Akio
APPLICANT: Uehara, Hirotsugu
APPLICANT: Eda, Soji
TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/920,827
FILING DATE: 29-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,577
FILING DATE: 27-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Rin-Laures, Li-Hsien
REGISTRATION NUMBER: 33,547
REFERENCE/DOCKET NUMBER: 19036/32420
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 2471 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Pseudomonas aeruginosa
STRAIN: Clinical Isolate P2-7
US-08-920-827-14

Query Match 71.0%; Score 14.2; DB 1; Length 2471;
Best Local Similarity 84.2%; Pred. No. 73;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCGCGTCGATATTCGACC 19
||||| 111 111 111 111 111 111
DB 1632 GCGCTTCGATATTCGACC 1650

RESULT 15
US-08-921-177-14
Sequence 14, Application US/08921177
Patent No. 5798211
GENERAL INFORMATION:
APPLICANT: Umno, Tsuneya
APPLICANT: Matsuhisa, Akio
APPLICANT: Uehara, Hirotsugu
APPLICANT: Eda, Soji
TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/921,177
FILING DATE: 29-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,577
FILING DATE: 27-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Rin-Laures, Li-Hsien
REGISTRATION NUMBER: 33,547
REFERENCE/DOCKET NUMBER: 19036/32420
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 2471 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Pseudomonas aeruginosa
STRAIN: Clinical Isolate P2-7
US-08-921-177-14

Query Match 71.0%; Score 14.2; DB 1; Length 2471;
Best Local Similarity 84.2%; Pred. No. 73;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCGCGTCGATATTCGACC 19
||||| 111 111 111 111 111 111
DB 1632 GCGCTTCGATATTCGACC 1650

Search completed: February 17, 2003, 21:57:37
Job time : 2102.13 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 : Search time 106.899 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-12

Sequence: 1 GCGCGTCGTATTCGACCG 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 42/239 seqs, 254661826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA.*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq.*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq.*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq.*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq.*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq.*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq.*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq.*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	15.4	77.0	260	US-09-854-133-321	Sequence 321, App
2	15.4	77.0	260	US-09-738-973-321	Sequence 321, App
3	15.2	76.0	712	US-10-074-246-64	Sequence 64, Appl
4	15.2	76.0	1203	US-09-974-300-245	Sequence 245, Appl
5	14.8	74.0	2229	US-09-974-300-536	Sequence 536, Appl
6	14.2	71.0	384	US-09-815-242-7668	Sequence 7668, Ap
7	14.2	71.0	627	US-09-738-626-2690	Sequence 2690, Ap
8	14.2	71.0	741	US-09-974-300-3152	Sequence 3152, Ap
9	14.2	71.0	1362	US-09-815-242-7937	Sequence 7937, Ap
10	14.2	71.0	1806	US-09-815-242-9845	Sequence 9845, Ap
11	14.2	71.0	2517	US-09-894-998-38	Sequence 38, Appl
12	14.2	71.0	49795	US-10-114-170-60	Sequence 60, Appl
13	14.2	71.0	3309400	US-09-738-626-1	Sequence 1, Appl1
14	14.2	70.0	1380	US-09-967-4778-7	Sequence 7, Appl1
15	13.8	69.0	287	US-09-294-0938-5484	Sequence 5484, Ap
16	13.8	69.0	685	US-10-074-246-70	Sequence 70, Appl
17	13.8	69.0	686	US-10-074-246-69	Sequence 69, Appl
18	13.8	69.0	698	US-10-074-246-63	Sequence 63, Appl
19	13.8	69.0	863	US-09-918-909-3	Sequence 3, Appl1

C	20	13.8	69.0	897	10	US-09-919-172-47	Sequence 47, Appl
	21	13.8	69.0	915	10	US-09-974-300-2523	Sequence 2523, Ap
	22	13.8	69.0	933	10	US-09-815-242-7992	Sequence 7992, Ap
C	23	13.8	69.0	993	10	US-09-974-300-136	Sequence 136, Appl
	24	13.8	69.0	1434	10	US-09-815-242-7982	Sequence 7982, Ap
	25	13.8	69.0	1452	10	US-09-815-242-4003	Sequence 4003, Ap
	26	13.8	69.0	1653	9	US-09-738-626-931	Sequence 931, Appl
	27	13.8	69.0	1935	10	US-09-070-927A-424	Sequence 424, Appl
C	28	13.8	69.0	2508	9	US-09-738-626-2305	Sequence 2305, Ap
	29	13.8	69.0	3699	9	US-09-738-626-812	Sequence 812, Appl
C	30	13.8	69.0	4863	10	US-09-815-242-4071	Sequence 4071, Ap
	31	13.8	69.0	474	10	US-09-974-300-2009	Sequence 2009, Appl
C	32	13.6	68.0	537	9	US-09-986-480-132	Sequence 132, Appl
	33	13.6	68.0	600	10	US-09-974-300-333	Sequence 333, Appl
C	34	13.6	68.0	628	9	US-10-074-246-66	Sequence 66, Appl
	35	13.6	68.0	729	9	US-10-074-246-71	Sequence 71, Appl
	36	13.6	68.0	745	9	US-10-074-246-60	Sequence 60, Appl
	37	13.6	68.0	802	9	US-10-074-246-65	Sequence 65, Appl
C	38	13.6	68.0	1038	10	US-09-815-242-4048	Sequence 4048, Appl
	39	13.6	68.0	1254	10	US-09-815-242-7936	Sequence 7936, Ap
	40	13.6	68.0	1356	9	US-09-938-842A-1932	Sequence 1932, Ap
C	41	13.6	68.0	1714	10	US-09-924-338-3	Sequence 3, Appl1
	42	13.6	68.0	2232	10	US-09-962-832-116	Sequence 116, Appl
	43	13.6	68.0	2232	10	US-09-880-107-3791	Sequence 3791, Ap
	44	13.6	68.0	2328	10	US-09-925-301-153	Sequence 153, Appl
	45	13.6	68.0	4963	10	US-09-764-877-2903	Sequence 2903, Ap

ALIGNMENTS

RESULT 1
US-09-854-133-321
; Sequence 321, Application US/09854133
; Publication No. US20020183499A1
; GENERAL INFORMATION:
; APPLICANT: Lodes, Michael J.
; APPLICANT: Mohamath, Raedoh
; APPLICANT: Henderson, Robert A.
; APPLICANT: Benson, Darin R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.475C10
; CURRENT APPLICATION NUMBER: US/09/854,133
; CURRENT FILING DATE: 2001-05-11
; NUMBER OF SEQ ID NOS: 735
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 321
; LENGTH: 260
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(260)
; OTHER INFORMATION: n = A,T,C or G
US-09-854-133-321

Query Match 77.0%; Score 15.4; DB 9; Length 260;
Best Local Similarity 94.1%; Pred. No. 9, 7;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CGTCGTATTCGACCG 20
||| ||||| ||||| |||||
Db 26 CGTAGGTATTCGACCG 42

RESULT 2
US-09-738-973-321
; Sequence 321, Application US/09738973
; Patent No. US20020110563A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.

```
; APPLICANT: Henderson, Robert A.
; APPLICANT: Lodes, Michael J.
; APPLICANT: Fling, Steven P.
; APPLICANT: Mohamach, Radooh
; APPLICANT: Algate, Paul A.
; APPLICANT: Secrist, Heather
; APPLICANT: Indrias, Carol Joseph
; APPLICANT: Benson, Darin R.
; APPLICANT: Elliott, Mark
; APPLICANT: Mannion, Jane
; APPLICANT: Kalos, Michael D.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR
; TITLE OF INVENTION: THE THERAPY AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.475C9
; CURRENT APPLICATION NUMBER: US/09/738.973
; CURRENT FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 587
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 321
; LENGTH: 260
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(260)
; OTHER INFORMATION: n = A,T,C or G
US-09-738-973-321
```

```
Query Match          77.0%; Score 15.4; DB 10; Length 260;
Best Local Similarity 94.1%; Pred. No. 9.7;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY 4 GCGTCGATATCCGACCG 20
    ||| ||||| ||||| |||
Db 26 CGTAGGATATCCGACCG 42
```

```
RESULT 3
US-10-074-246-64
; Sequence 64, Application US/10074246
; Publication No. US20030027174A1
; GENERAL INFORMATION:
; APPLICANT: Universite Catholique de Louvain
; TITLE OF INVENTION: Identification of nucleotide sequences specific for mycobacterial
; TITLE OF INVENTION: pseudomonas species, development of differential diagnosis strat
; TITLE OF INVENTION: mycobacterial and pseudomonas species
; FILE REFERENCE: UCL-021-US
; CURRENT APPLICATION NUMBER: US/10/074,246
; CURRENT FILING DATE: 2002-02-14
; PRIOR APPLICATION NUMBER: US 60/269,848
; PRIOR FILING DATE: 2001-02-21
; PRIOR APPLICATION NUMBER: US 60/292,509
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: EP 01870030.2
; PRIOR FILING DATE: 2001-02-19
; NUMBER OF SEQ ID NOS: 89
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 64
; LENGTH: 712
; TYPE: DNA
; ORGANISM: Mycobacterium szulgai
US-10-074-246-64
```

```
Query Match          76.0%; Score 15.2; DB 9; Length 712;
Best Local Similarity 85.0%; Pred. No. 13;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
OY 1 GCGTCGATATCCGACCG 20
    ||| ||||| ||||| |||
Db 38 GCGTCGATATCCGACCG 57
```

RESULT 4

```
US-09-974-300-245
; Sequence 245, Application US/09974300
; Patent No. US20020146721A1
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, Ib Groth
; TITLE OF INVENTION: Methods for Monitoring Multiple Gene
; TITLE OF INVENTION: Expression
; FILE REFERENCE: 10085.500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 245
; LENGTH: 1203
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-974-300-245
```

```
Query Match          76.0%; Score 15.2; DB 10; Length 1203;
Best Local Similarity 85.0%; Pred. No. 13;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
OY 1 GCGTCGATATCCGACCG 20
    ||||| ||||| ||| ||
Db 1054 GCGTCGATATCCGACCG 1073
```

```
RESULT 5
US-09-974-300-556
; Sequence 556, Application US/09974300
; Patent No. US20020146721A1
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, Ib Groth
; TITLE OF INVENTION: Methods for Monitoring Multiple Gene
; TITLE OF INVENTION: Expression
; FILE REFERENCE: 10085.500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 556
; LENGTH: 2229
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-974-300-556
```

```
Query Match          74.0%; Score 14.8; DB 10; Length 2229;
Best Local Similarity 88.9%; Pred. No. 22;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY 3 GCGTCGATATCCGACCG 20
    || |||| ||||| |||||
Db 491 GCATCGCATATCCGACCG 508
```

```
RESULT 6
US-09-815-242-7668/c
; Sequence 7668, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
```

```

: APPLICANT: Wall, Daniel
: APPLICANT: Trawick, John D.
: APPLICANT: Carr, Grant J.
: APPLICANT: Yamamoto, Robert T.
: APPLICANT: Xu, H. Howard
: TITLE OF INVENTION: Identification of Essential Genes in
: TITLE OF INVENTION: Prokaryotes
: FILE REFERENCE: ELITRA.011A
: CURRENT APPLICATION NUMBER: US/09/815,242
: CURRENT FILING DATE: 2001-03-21
: PRIOR APPLICATION NUMBER: 60/191,078
: PRIOR FILING DATE: 2000-03-21
: PRIOR APPLICATION NUMBER: 60/206,848
: PRIOR FILING DATE: 2000-05-23
: PRIOR APPLICATION NUMBER: 60/207,727
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: 60/242,578
: PRIOR FILING DATE: 2000-10-23
: PRIOR APPLICATION NUMBER: 60/253,625
: PRIOR FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: 60/257,931
: PRIOR FILING DATE: 2000-12-22
: PRIOR APPLICATION NUMBER: 60/269,308
: PRIOR FILING DATE: 2001-02-16
: NUMBER OF SEQ ID NOS: 14110
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 7668
: LENGTH: 384
: TYPE: DNA
: ORGANISM: Klebsiella pneumoniae
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)...(384)
: US-09-815-242-7668

```

```

Query Match          71.0%: Score 14.2; DB 10; Length 384;
Best Local Similarity 84.2%: Pred. No. 47;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      2  CGCGTCGGTATTCGACCG 20
          |||||  ||  |||||
Db      258 CGCGTCGGCATCCGACCG 240

```

```

RESULT 7
: US-09-738-626-2690/c
: Sequence 2690, Application US/09738626
: Publication No. US20020197605A1
: GENERAL INFORMATION:
: APPLICANT: NAKAGAWA, SATOSHI
: APPLICANT: MIZOGUCHI, HIROSHI
: APPLICANT: ANDO, SEIKO
: APPLICANT: HAYASHI, MIKIO
: APPLICANT: OCHIAI, KEIKO
: APPLICANT: YOKOI, HARUHIKO
: APPLICANT: TATEISHI, NAOKO
: APPLICANT: SENO, AKIHITO
: APPLICANT: IKEDA, MASATO
: APPLICANT: OKAKI, AKIO
: TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
: FILE REFERENCE: 249-125
: CURRENT APPLICATION NUMBER: US/09/738,626
: CURRENT FILING DATE: 2000-12-18
: PRIOR APPLICATION NUMBER: JP 99/377484
: PRIOR FILING DATE: 1999-12-16
: PRIOR APPLICATION NUMBER: JP 00/159162
: PRIOR FILING DATE: 2000-04-07
: PRIOR APPLICATION NUMBER: JP 00/280988
: PRIOR FILING DATE: 2000-08-03
: NUMBER OF SEQ ID NOS: 7059
: SOFTWARE: PatentIn ver. 3.0
: SEQ ID NO 2690
: LENGTH: 627

```

```

: TYPE: DNA
: ORGANISM: Corynebacterium glutamicum
: US-09-738-626-2690

```

```

Query Match          71.0%: Score 14.2; DB 9; Length 627;
Best Local Similarity 84.2%: Pred. No. 48;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      1  CGCGTCGGTATTCGACCG 19
          ||||  ||||  ||||  ||
Db      468 CGCGATCGCATTCGCGCC 450

```

```

RESULT 8
: US-09-974-300-3152
: Sequence 3152, Application US/09974300
: Patent No. US20020146721A1
: GENERAL INFORMATION:
: APPLICANT: Berka, Randy M.
: APPLICANT: Clausen, Ib Groth
: TITLE OF INVENTION: Methods for Monitoring Multiple Gene
: FILE REFERENCE: 10085,500-US
: CURRENT APPLICATION NUMBER: US/09/974,300
: CURRENT FILING DATE: 2001-10-05
: PRIOR APPLICATION NUMBER: 09/680,598
: PRIOR FILING DATE: 2000-10-06
: PRIOR APPLICATION NUMBER: 60/279,526
: PRIOR FILING DATE: 2001-03-27
: NUMBER OF SEQ ID NOS: 8481
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 3152
: LENGTH: 741
: TYPE: DNA
: ORGANISM: Bacillus licheniformis
: US-09-974-300-3152

```

```

Query Match          7.0%: Score 14.2; DB 10; Length 741;
Best Local Similarity 8.2%: Pred. No. 48;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

Qy      2  CGCGTCGGTATTCGACCG 20
          ||||  ||  |||||
Db      654 CGCGTCGGATTCGACCG 672

```

```

RESULT 9
: US-09-815-242-7937
: Sequence 7937, Application US/09815242
: Patent No. US20020061569A1
: GENERAL INFORMATION:
: APPLICANT: Haselbeck, Robert
: APPLICANT: Ohlsen, Karl W.
: APPLICANT: Zyskind, Judith W.
: APPLICANT: Wall, Daniel
: APPLICANT: Trawick, John D.
: APPLICANT: Carr, Grant J.
: APPLICANT: Yamamoto, Robert T.
: APPLICANT: Xu, H. Howard
: TITLE OF INVENTION: Identification of Essential Genes in
: TITLE OF INVENTION: Prokaryotes
: FILE REFERENCE: ELITRA.011A
: CURRENT APPLICATION NUMBER: US/09/815,242
: CURRENT FILING DATE: 2001-03-21
: PRIOR APPLICATION NUMBER: 60/191,078
: PRIOR FILING DATE: 2000-03-21
: PRIOR APPLICATION NUMBER: 60/206,848
: PRIOR FILING DATE: 2000-05-23
: PRIOR APPLICATION NUMBER: 60/207,727
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: 60/242,578
: PRIOR FILING DATE: 2000-10-23
: PRIOR APPLICATION NUMBER: 60/253,625

```

```

: PRIOR FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: 60/257,931
: PRIOR FILING DATE: 2000-12-22
: PRIOR APPLICATION NUMBER: 60/269,308
: PRIOR FILING DATE: 2001-02-16
: NUMBER OF SEQ ID NOS: 14110
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 7937
: LENGTH: 1362
: TYPE: DNA
: ORGANISM: Pseudomonas aeruginosa
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)...(1362)
US-09-815-242-7937

Query Match          71.0%; Score 14.2; DB 10; Length 1362;
Best Local Similarity 84.2%; Pred. No. 48;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1 CGCGTCGTATTCGACC 19
        1111111111111111
Db      1023 GCACGCGGTATTCGACC 1041

RESULT 10
US-09-815-242-9845/C
: Sequence 9845, Application US/09815242
: Patent No. US20020061569A1
: GENERAL INFORMATION:
: APPLICANT: Haselbeck, Robert
: APPLICANT: Ohlsen, Karl L.
: APPLICANT: Zyskind, Judith W.
: APPLICANT: Wall, Daniel
: APPLICANT: Trawick, John D.
: APPLICANT: Carr, Grant J.
: APPLICANT: Yamamoto, Robert T.
: APPLICANT: Xu, H. Howard
: TITLE OF INVENTION: Identification of Essential Genes in
: FILE REFERENCE: ELITRA.011A
: CURRENT APPLICATION NUMBER: US/09/815,242
: CURRENT FILING DATE: 2001-03-21
: PRIOR APPLICATION NUMBER: 60/191,078
: PRIOR FILING DATE: 2000-03-21
: PRIOR APPLICATION NUMBER: 60/206,848
: PRIOR FILING DATE: 2000-05-23
: PRIOR APPLICATION NUMBER: 60/207,727
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: 60/242,578
: PRIOR FILING DATE: 2000-10-23
: PRIOR APPLICATION NUMBER: 60/253,625
: PRIOR FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: 60/257,931
: PRIOR FILING DATE: 2000-12-22
: PRIOR APPLICATION NUMBER: 60/269,308
: NUMBER OF SEQ ID NOS: 14110
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 9845
: LENGTH: 1806
: TYPE: DNA
: ORGANISM: Salmonella typhi
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)...(1806)
US-09-815-242-9845

Query Match          71.0%; Score 14.2; DB 10; Length 1806;
Best Local Similarity 84.2%; Pred. No. 49;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 CGCGTCGTATTCGACC 20
```

```

        1111111111111111
Db      1068 CGCATCGGTATTCGACC 1050

RESULT 11
US-09-894-938-38
: Sequence 38, Application US/09894998
: Patent No. US20020090610A1
: GENERAL INFORMATION:
: APPLICANT: Hosken, Nancy Ann
: APPLICANT: Craig H. Day
: APPLICANT: David C. Dillon
: APPLICANT: McCoonan, Patrick
: APPLICANT: Sleath, Paul
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
: FILE REFERENCE: 210121.538
: CURRENT APPLICATION NUMBER: US/09/894,998
: CURRENT FILING DATE: 2001-06-28
: NUMBER OF SEQ ID NOS: 64
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 38
: LENGTH: 2517
: TYPE: DNA
: ORGANISM: HSV-2
US-09-894-998-38

Query Match          71.0%; Score 14.2; DB 10; Length 2517;
Best Local Similarity 84.2%; Pred. No. 49;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 CGCGTCGTATTCGACC 20
        1111111111111111
Db      889 CGCGTCGGAATTCGACC 907

RESULT 12
US-10-114-170-60/C
: Sequence 60, Application US/10114170
: Publication No. US20030023075A1
: GENERAL INFORMATION:
: APPLICANT: Blattner, Frederick R.
: APPLICANT: Burland, Valerie T.
: APPLICANT: Perna, Nicole T.
: APPLICANT: Plunkett, Gary
: APPLICANT: Welch, Chad
: TITLE OF INVENTION: No. US20030023075A1el Sequences of E. coli O157
: NUMBER OF SEQUENCES: 265
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Quarles & Brady
: STREET: 1 South Pinckney Street
: CITY: Madison
: STATE: WI
: COUNTRY: US
: ZIP: 53701-2113
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 3.50 inch, 1.44MB storage
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Word Perfect 8.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/10/114,170
: FILING DATE: 01-Apr-2002
: CLASSIFICATION: <Unknown>
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 09/453,702
: FILING DATE: 03-DEC-1999
: APPLICATION NUMBER: 60/110,955
: FILING DATE: 04-DEC-1998
: ATTORNEY/AGENT INFORMATION:
: NAME: Seay, Nicholas J.
: REGISTRATION NUMBER: 27386
: REFERENCE/DOCKET NUMBER: 960296.95017
```

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (608) 251-5000
; TELEFAX: (608) 251-9166
; INFORMATION FOR SEQ ID NO: 60:
; SEQUENCE CHARACTERISTICS:
;     LENGTH: 49795
;     TYPE: nucleic acid
;     STRANDEDNESS: double
;     TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; SEQUENCE DESCRIPTION: SEQ ID NO: 60:
US-10-114-170-60

Query Match                               71.0%; Score 14.2; DB 9; Length 49795;
Best Local Similarity 84.2%; Pred. No. 53;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps

OY      1 GCGCGTCGATTCGACACC 19
        ||||| ||||| ||||| |||||
Db       35958 GCGCGAGAGTATTCGACC 35940

RESULT 13
US-09-738-626-1
; Sequence 1, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIJO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738, 626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO 1
; LENGTH: 3309400
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-1

Query Match                               71.0%; Score 14.2; DB 9; Length 3309400;
Best Local Similarity 84.2%; Pred. No. 49;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps

OY      1 GCGCGTCGATTCGACACC 19
        ||||| ||||| ||||| |||||
Db       2594127 GCGCATCGGATTCGACC 2594145

RESULT 14
US-09-967-477B-7
; Sequence 7, Application US/09967477B
; Patent No. US20020156254A1
; GENERAL INFORMATION:
; APPLICANT: Xiao Qiu
; APPLICANT: Haiding Hong
; APPLICANT: FAD4, FAD5, FAD5-2, AND FAD6, NOVEL
; TITLE OF INVENTION: FATTY ACID DESATURASE FAMILY MEMBERS AND USES THEREOF

```

```

: FILE REFERENCE: BNZ-001
: CURRENT APPLICATION NUMBER: US/09/967, 477B
: CURRENT FILING DATE: 2002-04-16
: PRIOR APPLICATION NUMBER: 60/236, 303
: PRIOR FILING DATE: 2000-09-28
: PRIOR APPLICATION NUMBER: 60/297, 562
: PRIOR FILING DATE: 2001-06-12
: NUMBER OF SEQ ID NOS: 8
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 7
: LENGTH: 1380
: TYPE: DNA
: ORGANISM: Thraustochytrium sp.
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)...(1380)
US-09-967-477B-7

Query Match          70.0%; Score 14: DB 9; Length 1380;
Best Local Similarity 100.0%; Pred. No. 63;
Matches 14: Conservative 0; Mismatches 0; Indels 0; Gaps 0.

```

```

OY      1  GCGCGTCGCTATTTC 14
          ||| ||| ||| ||| |||
DB      1145 GCGCGTCGCTATTTC 1158

RESULT 15
US-09-294-093B-5484
; Sequence 5484, Application US/09294093B
; Patent No. US20010051335A1
GENERAL INFORMATION:
APPLICANT: Lalgydi, Kaghmalh, V.
APPLICANT: Ito, Laura Y.
APPLICANT: Sherman, Bradley, K.
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN TASSEL
FILE REFERENCE: PI-0009 US
CURRENT APPLICATION NUMBER: US/09/294,093B
CURRENT FILING DATE: 1999-04-16
PRIOR APPLICATION NUMBER: 60/082,567
PRIOR FILING DATE: April 21, 1998
NUMBER OF SEQ ID NOS: 6207
SOFTWARE: PERL Program

; SEQ ID NO 5484
; LENGTH: 287
; TYPE: DNA
; ORGANISM: Zea mays
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Inctyle ID NO. US20010051335A1 700356860H1
NAME/KEY: unsure
LOCATION: 32, 58, 95, 97, 100, 154, 168, 170, 184, 186
OTHER INFORMATION: a, l, c, g, or other
US-09-294-093B-5484

Query Match          69.0%: Score 13.8; DB 10; Length 287;
Best Local Similarity 88.2%: Pred. No. 79;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1  GCGCGTCGCTATTTCGA 17
          ||| ||| ||| ||| |||
DB      33  GCGCGCGCTATTTCGA 49

Search completed: February 18, 2003, 07:07:57
Job time : 796.899 secs

```

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 : Search time 26.216 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-13
Perfect score: 18
Sequence: 1 GAGACCAAAAACACGAA 18

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapept 1.0

Searched: 441362 seqs, 1533381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appl 1
2	15	83.3	1047	4 US-09-671-950-9	Sequence 9, Appl 1
3	15	83.3	1047	4 US-09-671-950-11	Sequence 11, Appl 1
4	14.8	82.2	874	1 US-08-120-607A-10	Sequence 10, Appl 1
5	14.8	82.2	4138	1 US-08-447-411-75	Sequence 75, Appl 1
6	14.8	82.2	4138	2 US-08-662-227-33	Sequence 33, Appl 1
7	14.8	82.2	4138	2 US-09-017-947-33	Sequence 33, Appl 1
8	14.8	82.2	5211	1 US-08-447-411-1	Sequence 1, Appl 1
9	14.8	82.2	10669	4 US-08-961-527-57	Sequence 57, Appl 1
10	14.4	80.0	5194	1 US-09-599-652-1	Sequence 1, Appl 1
11	14.4	80.0	5194	2 US-08-642-846-1	Sequence 1, Appl 1
12	14.4	80.0	5194	4 US-09-264-604-1	Sequence 1, Appl 1
13	14.4	80.0	6755	3 US-08-931-999-1	Sequence 4, Appl 1
14	14.4	80.0	112132	4 US-09-741-150-3	Sequence 3, Appl 1
15	13.8	76.7	307	4 US-09-221-298-98	Sequence 98, Appl 1
16	13.8	76.7	481	4 US-09-643-597-290	Sequence 20, Appl 1
17	13.8	76.7	806	4 US-09-222-575-86	Sequence 86, Appl 1
18	13.8	76.7	974	1 US-08-220-606B-29	Sequence 29, Appl 1
19	13.8	76.7	1059	4 US-08-476-102A-8	Sequence 8, Appl 1
20	13.8	76.7	1095	1 US-08-220-606B-1	Sequence 1, Appl 1
21	13.8	76.7	1293	4 US-09-134-001C-144	Sequence 144, Appl 1
22	13.8	76.7	1743	1 US-08-171-382-3	Sequence 3, Appl 1
23	13.8	76.7	1743	1 US-08-309-420-3	Sequence 3, Appl 1
24	13.8	76.7	1743	1 US-08-309-419-3	Sequence 3, Appl 1
25	13.8	76.7	1743	5 PCT-US95-11856-3	Sequence 3, Appl 1
26	13.8	76.7	1743	5 PCT-US95-11878-3	Sequence 3, Appl 1
27	13.8	76.7	2392	1 US-08-171-382-5	Sequence 5, Appl 1

28	13.8	76.7	2392	1 US-08-309-420-5	Sequence 5, Appl 1
29	13.8	76.7	2392	1 US-08-309-419-5	Sequence 5, Appl 1
30	13.8	76.7	2392	5 PCT-US95-11856-5	Sequence 5, Appl 1
31	13.8	76.7	2392	5 PCT-US95-11878-5	Sequence 5, Appl 1
32	13.8	76.7	2621	2 US-08-553-619B-8	Sequence 8, Appl 1
33	13.8	76.7	2655	4 US-08-456-200B-10	Sequence 10, Appl 1
34	13.8	76.7	4071	4 US-09-091-117-3	Sequence 3, Appl 1
35	13.8	76.7	4243	4 US-08-477-831C-7	Sequence 7, Appl 1
36	13.8	76.7	4379	1 US-08-592-214A-17	Sequence 17, Appl 1
37	13.8	76.7	4379	3 US-09-149-976-17	Sequence 17, Appl 1
38	13.8	76.7	4919	4 US-08-456-200B-2	Sequence 2, Appl 1
39	13.8	76.7	5596	4 US-08-965-762-3	Sequence 3, Appl 1
40	13.8	76.7	7032	2 US-08-149-097D-24	Sequence 24, Appl 1
41	13.8	76.7	7032	3 US-08-949-386-24	Sequence 24, Appl 1
42	13.8	76.7	7032	3 US-08-450-562-24	Sequence 24, Appl 1
43	13.8	76.7	7032	4 US-08-984-709A-24	Sequence 24, Appl 1
44	13.8	76.7	7032	4 US-08-450-272-24	Sequence 24, Appl 1
45	13.8	76.7	7089	3 US-08-949-386-25	Sequence 25, Appl 1

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2
: Sequence 2, Application US/09103840A
: Patent No. 6294328
: GENERAL INFORMATION:
: APPLICANT: FLEISCHMAN, Robert D.
: APPLICANT: WHITE, Owen R.
: APPLICANT: FRASER, Claire M.
: APPLICANT: VENTER, John C.
: TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
: FILE REFERENCE: 24366-20007.00
: CURRENT APPLICATION NUMBER: US/09/103,840A
: CURRENT FILING DATE: 1998-06-24
: NUMBER OF SEQ ID NOS: 2
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 2
: LENGTH: 4403765
: TYPE: DNA
: ORGANISM: Mycobacterium tuberculosis
: FEATURE:
: OTHER INFORMATION: "n" bases at various positions throughout the sequence
: OTHER INFORMATION: repeat of a, t, c or g
US-09-103-840A-2

Query Match      100.0%: Score 18; DB 4; Length 4403765;
Best Local Similarity 100.0%: Pred. No. 14;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      1 GAGACCAAAAACACGAA 18
Db 3081521 GAGACCAAAAACACGAA 3081538

RESULT 2
US-09-671-950-9
: Sequence 9, Application US/09671950
: Patent No. 6368830
: GENERAL INFORMATION:
: APPLICANT: Lampe, David
: APPLICANT: Akertley, Brian
: APPLICANT: Rubin, Eric
: APPLICANT: Robertson, Hugh
: TITLE OF INVENTION: Hyperactive Mutants of Himarl Transposase and Methods
: FILE REFERENCE: 79-99
: CURRENT APPLICATION NUMBER: US/09/671,950
: CURRENT FILING DATE: 2000-09-27
: PRIOR APPLICATION NUMBER: 60/157,680
```

```

: PRIOR FILING DATE: 1999-10-01
: NUMBER OF SEQ ID NOS: 20
: SOFTWARE: Patentln Ver. 2.0
: SEQ ID NO 9
: LENGTH: 1047
: TYPE: DNA
: ORGANISM: Haematobia irritans
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(1044)
US-09-671-950-9

Query Match      83.3%; Score 15; DB 4; Length 1047;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GACCAAAACACGGA 17
Db      379 GACCAAAACACGGA 393
|||||

RESULT 3
US-09-671-950-11
: Sequence 11, Application US/09671950
: Patent No. 6368830
: GENERAL INFORMATION:
: APPLICANT: Lampe, David
: APPLICANT: Aketley, Brian
: APPLICANT: Rudin, Eric
: APPLICANT: Robertson, Hugh
: TITLE OF INVENTION: Hyperactive Mutants of Himar1 Transposase and Methods
: FILE REFERENCE: 79-99
: CURRENT APPLICATION NUMBER: US/09/671,950
: CURRENT FILING DATE: 2000-09-27
: PRIOR APPLICATION NUMBER: 60/157,680
: PRIOR FILING DATE: 1999-10-01
: NUMBER OF SEQ ID NOS: 20
: SOFTWARE: Patentln Ver. 2.0
: SEQ ID NO 11
: LENGTH: 1047
: TYPE: DNA
: ORGANISM: Haematobia irritans
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(1044)
US-09-671-950-11

Query Match      83.3%; Score 15; DB 4; Length 1047;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GACCAAAACACGGA 17
Db      379 GACCAAAACACGGA 393
|||||

RESULT 4
US-08-120-607A-10/C
: Sequence 10, Application US/08120607A
: Patent No. 5762939
: GENERAL INFORMATION:
: APPLICANT: Smith, Gale E.
: APPLICANT: Volvovitz, Franklin
: APPLICANT: Wilkinson, Bethanie
: APPLICANT: Hackett, Craig
: TITLE OF INVENTION: A METHOD FOR PRODUCING INFLUENZA
: TITLE OF INVENTION: HEMAGGLUTININ MULTIVALENT VACCINES
: NUMBER OF SEQUENCES: 16
: CORRESPONDENCE ADDRESS:
: ADDRESS: Thomas J. Kowalski
: STREET: 530 Fifth Avenue
: CITY: New York
```

```

: STATE: NY
: COUNTRY: USA
: ZIP: 10036
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentln Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/120,607A
: FILING DATE: September 13, 1993
: CLASSIFICATION: 435
: ATTORNEY/AGENT INFORMATION:
: NAME: Kowalski, Thomas J.
: REGISTRATION NUMBER: 32,147
: REFERENCE/DOCKET NUMBER: 674501-2001
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (212) 840-3333
: TELEFAX: (212) 840-0712
: INFORMATION FOR SEQ ID NO: 10:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 874 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: RNA (genomic)
: HYPOTHEICAL: NO
: ANTI-SENSE: NO
: ORIGINAL SOURCE:
: ORGANISM: Influenza virus
US-08-120-607A-10

Query Match      82.2%; Score 14.8; DB 1; Length 874;
Best Local Similarity 88.9%; Pred. No. 2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GAGACCAAAACACGAA 18
Db      431 GAGACCAAAACACGAA 414
|||||

RESULT 5
US-08-447-411-75
: Sequence 75, Application US/08447411
: Patent No. 5773243
: GENERAL INFORMATION:
: APPLICANT: FRITZINGER, DAVID C.
: APPLICANT: BREDEHORST, KEITHARD
: APPLICANT: VOGEL, CARL-WILHELM
: TITLE OF INVENTION: DNA ENCODING COBRA C3, CVF1, AND CVF2
: NUMBER OF SEQUENCES: 81
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
: STREET: 1755 S. Jefferson Davis Highway, Suite 400
: CITY: Arlington
: STATE: Virginia
: COUNTRY: U.S.A.
: ZIP: 22202
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patentln Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/447,411
: FILING DATE:
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/043,747
: FILING DATE: 07-APR-1993
: ATTORNEY/AGENT INFORMATION:
: NAME: Oblon, No. 5773243man F.
```

REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 1126-101-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 75:
SEQUENCE CHARACTERISTICS:
LENGTH: 4138 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 3..4001
US-08-447-411-75

Query Match 82.2%; Score 14.8; DB 1; Length 4138;
Best Local Similarity 88.9%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GAGACCAAAACACGAA 18
|||||
Db 2961 GAGACCAACTCAACGAA 2978

RESULT 6
US-08-662-227-33
Sequence 33, Application US/08662227
Patent No. 5922320
GENERAL INFORMATION:
APPLICANT: VOGEL, CARL-WILHELM
APPLICANT: BREDEHORST, REINHORST
APPLICANT: KOCK, MICHAEL
APPLICANT: FRITZINGER, DAVID
TITLE OF INVENTION: RECOMBINANT PROCVF
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/662,227
FILING DATE: 14-JUN-1996
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 1126-0107-0X
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 4138 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-662-227-33
Query Match 82.2%; Score 14.8; DB 2; Length 4138;
Best Local Similarity 88.9%; Pred. No. 2.3e+02;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GAGACCAAAACACGAA 18
|||||
Db 2961 GAGACCAACTCAACGAA 2978

RESULT 7
US-09-017-947-33

Sequence 33, Application US/09017947
Patent No. 6303754
GENERAL INFORMATION:
APPLICANT: VOGEL, CARL-WILHELM
APPLICANT: BREDEHORST, REINHORST
APPLICANT: KOCK, MICHAEL
APPLICANT: FRITZINGER, DAVID
TITLE OF INVENTION: RECOMBINANT PROCVF
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/017,947
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: S 08/662,227
FILING DATE: 14-JUN-1996
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 1126-0107-0X
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 4138 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-017-947-33

US-09-017-947-33

Query Match 82.2%; Score 14.8; DB 4; Length 4138;
Best Local Similarity 88.9%; Pred. No. 2.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GAGACCAAAACACGAA 18
|||||
Db 2961 GAGACCAACTCAACGAA 2978

RESULT 8
US-08-447-411-1

Sequence 1, Application US/08447411
Patent No. 5773243
GENERAL INFORMATION:
APPLICANT: FRITZINGER, DAVID C.
APPLICANT: BREDEHORST, REINHARD
APPLICANT: VOGEL, CARL-WILHELM
TITLE OF INVENTION: DNA ENCODING COBRA C3, CVF1, AND CVF2
NUMBER OF SEQUENCES: 81

CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCLELLAND, MAIER & NEUSTADT,
ADDRESS: P.C.
STREET: 1755 S. Jefferson Davis Highway, Suite 400
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/447,411
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/043,747
FILING DATE: 07-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Oblon, No. 5773243man F.
REGISTRATION NUMBER: 24,618
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 413-3000
TELEFAX: (703) 413-2220
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ. ID NO. 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5211 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 9..4961
US-08-447-411-1
Query Match 82.2%; Score 14.8; DB 1; Length 5211;
Best Local Similarity 88.9%; Pred. No. 2.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GAGACCAAAACACGAA 18
DB 3936 GAGACCAAACTCAACGAA 3953
RESULT 9
US-08-961-527-57/C
Sequence 57, Application US/08961527
Patent No. 6420135
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
NUMBER OF SEQUENCES: 391
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,527
FILING DATE:
CLASSIFICATION: 424

PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB340P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ. ID NO: 57:
SEQUENCE CHARACTERISTICS:
LENGTH: 10669 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-961-527-57

Query Match 82.2%; Score 14.8; DB 4; Length 10669;
Best Local Similarity 88.9%; Pred. No. 2.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGACCAAAACACGAA 18
DB 7816 GAGACCAAAAGAAATGAA 7799

RESULT 10
US-09-599-652-1
Sequence 1, Application US/09599652
Patent No. RE37741
GENERAL INFORMATION:
APPLICANT: HOSFTETTER, MARGARET K.
APPLICANT: GALE, CHERYL A.
APPLICANT: BENDEL, CATHERINE M.
APPLICANT: TAO, NIAN-JUN
APPLICANT: KENDRICK, KATHLEEN
TITLE OF INVENTION: CANDIDA ALBICANS GENE, INTEGRIN-LIKE
TITLE OF SEQUENCES: PRWEIN, ANTIBODIES, AND METHODS OF USE
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: METTING, RAASCH, GEBIAKOV & SCHWAPPACH, P.A.
STREET: 119 NORTH FOURTH STREET, SUITE 203
CITY: MINNEAPOLIS
STATE: MINNESOTA
COUNTRY: USA
ZIP: 55407
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/599,652
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/642,846
FILING DATE: 03-MAY-1996
ATTORNEY/AGENT INFORMATION:
NAME: METTING, ANN M.
REGISTRATION NUMBER: 33,977
REFERENCE/DOCKET NUMBER: 110,00280101
TELECOMMUNICATION INFORMATION:
TELEPHONE: 612-305-1217
TELEFAX: 612-305-1228
INFORMATION FOR SEQ. ID NO. 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 5194 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)


```
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/710,561
; FILING DATE: 19-SEP-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Collins, John M.
; REGISTRATION NUMBER: 26,262
; REFERENCE/DOCKET NUMBER: 25043-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 816/474-9050
; TELEFAX: 816/474-9057
; INFORMATION F. SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6755 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: unknown
; MOLECULE TYPE: DNA (genomic)
; HYPOTHEetical: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Staphylococcus aureus
; STRAIN: UT0007
; US-08-931-999-4

Query Match      80.0%; Score 14.4; DB 3; Length 6755;
Best Local Similarity 93.8%; Pred. No. 3.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AGACCAAAACACGA 17
Db 6189 AGACCAAAACACAA 6204

RESULT 14
US-09-741-150-3/C
; Sequence 3, Application US/09741150
; Patent No. 6436689
; GENERAL INFORMATION:
; APPLICANT: GUEGLER, Karl et al
; TITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND
; FILE REFERENCE: C1000968
; CURRENT APPLICATION NUMBER: US/09/741,150
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 112132
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(112132)
; OTHER INFORMATION: n = A,T,C or G
; US-09-741-150-3

Query Match      80.0%; Score 14.4; DB 4; Length 112132;
Best Local Similarity 93.8%; Pred. No. 4.3e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 AGACCAAAACACGA 17
Db 35147 AGACCAAAACACAA 35132

RESULT 15
US-09-221-298-98/C
; Sequence 98, Application US/09221298
; Patent No. 6284241
; GENERAL INFORMATION:
; APPLICANT: Xu, Jiangchun
```

```
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THERAPY AND DIAGNOSIS
; FILE REFERENCE: 210121.471
; CURRENT APPLICATION NUMBER: US/09/221,298
; CURRENT FILING DATE: 1998-12-23
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 98
; LENGTH: 307
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (3)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (15)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (19)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (20)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (25)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (28)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (43)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (70)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (75)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (81)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (102)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (139)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (162)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (203)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (259)
; OTHER INFORMATION: where n is a, c, g or t
; FEATURE:
; NAME/KEY: modified_base
```

LOCATION: (260)
OTHER INFORMATION: where n is a, c, g or t
FEATURE:
NAME/KEY: modified_base
LOCATION: (283)
OTHER INFORMATION: where n is a, c, g or t
FEATURE:
NAME/KEY: modified_base
LOCATION: (295)
OTHER INFORMATION: where n is a, c, g or t
US-09-221-298-98

Query Match 76.7%: Score 13.8; DB 4; Length 307;
Best Local Similarity 88.2%: Pred. No. 5.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGACCAAAACCAACGA 17
|||||||
Db 233 GAGACCAAAATCAACCA 217

Search completed: February 17, 2003, 22:14:54
Job time : 1063.22 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 96.2091 Seconds

(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-13
Perfect score: 18
Sequence: 1 GAGACCAAAACACGAA 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 25461826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCF_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/FCIOS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	15.4	85.6	229	10	US-09-867-701-7685	Sequence 7685, Ap
2	15.4	85.6	1991	10	US-09-880-107-1621	Sequence 1621, Ap
3	15.4	85.6	2213	10	US-09-070-927A-79	Sequence 79, Appl
4	15.4	85.6	5063	9	US-09-931-375A-1	Sequence 1, Appl
5	15.4	85.6	32191	10	US-09-764-864-1678	Sequence 1678, Ap
6	14.8	82.2	111	10	US-09-770-696-778	Sequence 778, Ap
7	14.8	82.2	433	12	US-10-078-929-15	Sequence 15, Appl
8	14.8	82.2	508	12	US-10-078-929-17	Sequence 17, Appl
9	14.8	82.2	1127	9	US-09-822-846-350	Sequence 350, Ap
10	14.8	82.2	1422	9	US-09-938-842A-3548	Sequence 3548, Ap
11	14.8	82.2	2000	10	US-09-887-576-139	Sequence 139, Ap
12	14.8	82.2	4138	10	US-09-925-442-33	Sequence 33, Appl
13	14.8	82.2	4607	10	US-09-070-927A-294	Sequence 294, App
14	14.8	82.2	15363	10	US-09-070-927A-279	Sequence 279, App
15	14.4	80.0	373	10	US-09-770-791-303	Sequence 303, App
16	14.4	80.0	377	10	US-09-878-574-3651	Sequence 3651, App
17	14.4	80.0	497	10	US-09-783-590-3151	Sequence 3151, App
18	14.4	80.0	678	10	US-09-770-149-153	Sequence 353, App
19	14.4	80.0	693	9	US-09-910-664-45	Sequence 45, Appl

20	14.4	80.0	813	9	US-09-910-664-21	Sequence 21, Appl
21	14.4	80.0	978	9	US-09-938-842A-1549	Sequence 1549, Ap
22	14.4	80.0	1128	9	US-09-738-626-1424	Sequence 1424, Ap
23	14.4	80.0	1383	10	US-09-741-669-271	Sequence 271, App
24	14.4	80.0	5194	9	US-10-002-389-1	Sequence 1, Appl
25	14.4	80.0	9797	10	US-09-070-927A-550	Sequence 550, App
26	14.4	80.0	121	10	US-09-864-761-20408	Sequence 20408, A
27	14.4	77.8	403	10	US-09-864-761-13640	Sequence 3640, Ap
28	14.4	77.8	593	10	US-09-864-761-13141	Sequence 13141, A
29	14.4	77.8	1516	9	US-09-938-842A-3178	Sequence 3178, Ap
30	13.8	76.7	2004	10	US-09-887-576-260	Sequence 260, App
31	13.8	76.7	174	10	US-09-728-445-890	Sequence 890, App
32	13.8	76.7	255	10	US-09-867-550-427	Sequence 427, App
33	13.8	76.7	282	10	US-09-923-856-3213	Sequence 3213, App
34	13.8	76.7	307	9	US-10-025-180-98	Sequence 98, Appl
35	13.8	76.7	307	10	US-09-922-117-98	Sequence 98, Appl
36	13.8	76.7	307	10	US-09-833-263-98	Sequence 98, Appl
37	13.8	76.7	328	10	US-09-960-352-6936	Sequence 836, Ap
38	13.8	76.7	337	10	US-09-770-791-878	Sequence 878, App
39	13.8	76.7	344	10	US-09-770-791-794	Sequence 794, App
40	13.8	76.7	364	10	US-09-770-791-446	Sequence 446, App
41	13.8	76.7	373	10	US-09-924-035A-635	Sequence 635, App
42	13.8	76.7	388	10	US-09-770-791-47	Sequence 47, Appl
43	13.8	76.7	405	10	US-09-960-352-7525	Sequence 7525, App
44	13.8	76.7	416	10	US-09-880-107-328	Sequence 328, App
45	13.8	76.7	457	10	US-09-770-444-508	Sequence 508, App

ALIGNMENTS

```

RESULT 1
US-09-867-701-7685
; Sequence 7685, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Agiate, Paul A.
; APPLICANT: Jones, Robert
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 7685
; LENGTH: 229
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-7685

Query Match      85.6%; Score 15.4; DB 10; Length 229;
Best Local Similarity 94.1%; Pred. No. 2e+02; 1; Indels 0; Gaps 0;
Matches 16; Conservative 0; Mismatches 1;

Oy      2 ACACCAAAACACGAA 18
Db      144 ACACCAAAACACGAA 160

RESULT 2
US-09-880-107-1621/c
; Sequence 1621, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880,107

```

CURRENT FILING DATE: 2001-06-14
PRIOR APPLICATION NUMBER: US 60/211,379
PRIOR FILING DATE: 2000-06-14
PRIOR APPLICATION NUMBER: US 60/237,054
PRIOR FILING DATE: 2000-10-02
NUMBER OF SEQ ID NOS: 3950
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1621
LENGTH: 1991
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: Genbank Accession No. US20020142981A1 D16481
US-09-880-107-1621

Query Match 85.6%; Score 15.4; DB 10; Length 1991;
Best Local Similarity 94.1%; Pred. No. 2.5e+02;
Matches 16; Conservative 1; Indels 0; Gaps 0;

OY 1 GAGACCAAAACACGCA 17
DB 1725 GAGACCAAAACACGCA 1709

RESULT 3
US-09-070-927A-79/c
Sequence 79, Application US/09070927A
Patent No. US20020120116A1
GENERAL INFORMATION:
APPLICANT: Charles A. Kunsch
Patrick J. Dillon
Steven Barash

TITLE OF INVENTION: Enterococcus faecialis Polynucleotides and Polypeptides
NUMBER OF SEQUENCES: 982
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/070,927A
FILING DATE: 04-May-2000
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/046,655
FILING DATE: 1997-05-16
APPLICATION NUMBER: 60/044,031
FILING DATE: 1997-05-06
APPLICATION NUMBER: 60/066,009
FILING DATE: 1997-11-14

ATTORNEY/AGENT INFORMATION:
NAME: Kenley K. Hoover
REGISTRATION NUMBER: 40,302
REFERENCE/DOCKET NUMBER: PB369
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8512
TELEFAX: (301) 309-8504

INFORMATION FOR SEQ ID NO: 79:
SEQUENCE CHARACTERISTICS:
LENGTH: 2213 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 79:
US-09-070-927A-79

Query Match 85.6%; Score 15.4; DB 10; Length 2213;
Best Local Similarity 94.1%; Pred. No. 2.5e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 AGACCAAAACACGAA 18
DB 2151 AGACCAAAACACGAA 2135

RESULT 4
US-09-931-375A-1
Sequence 1, Application US/09931375A
Publication No. US20030027151A1
GENERAL INFORMATION:
APPLICANT: WARMAN, Matthew L.
APPLICANT: GONG, Yaogin
APPLICANT: OLSEN, Bjorn R.
APPLICANT: RAMADI, Georges
APPLICANT: ROMAN-ROMAN, Sergiu
TITLE OF INVENTION: REGULATOR GENE AND SYSTEM USEFUL FOR THE DIAGNOSIS AND THERAPY
FILE REFERENCE: 38464-0004
CURRENT APPLICATION NUMBER: US/09/931,375A
CURRENT FILING DATE: 2001-08-17
PRIOR APPLICATION NUMBER: US 60/304,851
PRIOR FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: US 60/234,337
PRIOR FILING DATE: 2000-09-22
PRIOR APPLICATION NUMBER: US 60/226,119
PRIOR FILING DATE: 2000-08-18
NUMBER OF SEQ ID NOS: 89
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1
LENGTH: 5063
TYPE: DNA
ORGANISM: Homo sapiens
US-09-931-375A-1

Query Match 85.%; Score 15.4; DB 9; Length 5063;
Best Local Similarity 94.1%; Pred. No. 3.2e+02;
Matches 16; Conservative 1; Indels 0; Gaps 0;

OY 1 GAGACCAAAACACGCA 17
DB 2032 GAGACCAAAACACGCA 2048

RESULT 5
US-09-764-864-1678/c
Sequence 1678, Application US/09764864
Patent No. US20020132753A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: P1723
CURRENT APPLICATION NUMBER: US/09/764,864
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 1792
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1678
LENGTH: 32191
TYPE: DNA
ORGANISM: Homo sapiens
US-09-764-864-1678

Query Match 85.6%; Score 15.4; DB 10; Length 32191;
Best Local Similarity 94.1%; Pred. No. 3.2e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 AGACCAAAACACGAA 18
DB 17989 AGACCAAAACACGAA 17973

```
RESULT 6
US-09-770-696-778/c
; Sequence 778, Application US/09770696
; Patent No. US20010044940A1
; GENERAL INFORMATION:
; APPLICANT: Gottlieb, John
; APPLICANT: An, Yong-Qiang
; APPLICANT: Hamilton, Carol M.
; APPLICANT: Price, Jennifer L.
; APPLICANT: Raines, Tracy M.
; APPLICANT: Yu, Yang
; APPLICANT: Rameaka, Joshua G.
; APPLICANT: Page, Amy
; APPLICANT: Mathew, Abraham V.
; APPLICANT: Ledford, Brooke L.
; APPLICANT: Moessner, Jeffrey P.
; APPLICANT: Haas, William David
; APPLICANT: Garcia, Carlos A.
; APPLICANT: Kicker, Maja
; APPLICANT: Slader, Ted
; APPLICANT: Davis, Keith R.
; APPLICANT: Allen, Keith
; APPLICANT: Hoffman, Neil
; APPLICANT: Hurban, Patrick
; TITLE OF INVENTION: Expressed Sequences of Arabidopsis
; FILE REFERENCE: 2031US (PARA-020PRV)
; CURRENT APPLICATION NUMBER: US/09/770,696
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,278
; PRIOR FILING DATE: 2000-01-27
; NUMBER OF SEQ ID NOS: 911
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 778
; LENGTH: 111
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-770-696-778

Query Match      82.2%; Score 14.8; DB 10; Length 111;
Best Local Similarity 88.9%; Pred. No. 3.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GAGACCAAAACACGAA 18
Db      103 GAAACCAAAACAAAGAA 86

RESULT 7
US-10-078-929-15/c
; Sequence 15, Application US/10078929
; Patent No. US20020152497A1
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Weng, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
; FILE REFERENCE: BB1357 US NA
; CURRENT APPLICATION NUMBER: US/10/078,929
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,394
; PRIOR FILING DATE: 2000-05-05
; NUMBER OF SEQ ID NOS: 60/133038
; SOFTWARE: Microsoft Office 97
```

```

; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133428
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133438
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 15
; LENGTH: 433
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (411)
US-10-078-929-15

Query Match      82.2%; Score 14.8; DB 12; Length 433;
Best Local Similarity 88.9%; Pred. No. 3.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GAGACCAAAACACGAA 18
Db      350 GAGACCATTAACACGCGAA 333

RESULT 8
US-10-078-929-17/c
; Sequence 17, Application US/10078929
; Patent No. US20020152497A1
; GENERAL INFORMATION:
; APPLICANT: Rafalski, Antoni
; APPLICANT: Miao, Guo-Hua
; APPLICANT: Falco, Saverio Carl
; APPLICANT: Sakai, Hajime
; APPLICANT: Famodu, Omolayo O.
; APPLICANT: Odell, Joan T.
; APPLICANT: Meyers, Blake
; APPLICANT: Thorpe, Catherine
; APPLICANT: Weng, Zude
; TITLE OF INVENTION: Nucleic Acid Fragments Encoding Proteins Involved in
; FILE REFERENCE: BB1357 US NA
; CURRENT APPLICATION NUMBER: US/10/078,929
; CURRENT FILING DATE: 2002-02-19
; PRIOR APPLICATION NUMBER: 09/566,394
; PRIOR FILING DATE: 2000-05-05
; PRIOR APPLICATION NUMBER: 60/133038
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133042
; PRIOR FILING DATE: 1999-05-07
; PRIOR APPLICATION NUMBER: 60/133427
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133437
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133428
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133438
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/133436
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: 60/137667
; PRIOR FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: Microsoft Office 97
```

SEQ ID NO 17
LENGTH: 508
TYPE: DNA
ORGANISM: Zea mays
US-10-078-929-17

Query Match 82.2%; Score 14.8; DB 12; Length 508;
Best Local Similarity 88.9%; Pred. No. 4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGACCAAAACACGAA 18
||||| ||||| |||||
Db 359 GAGACCATAAACACGAA 342

RESULT 9

US-09-822-846-350
Sequence 350, Application US/09822846
Publication No. US20030027139A1

GENERAL INFORMATION:

APPLICANT: Jacobs, Kenneth
APPLICANT: McCoy, John M.
APPLICANT: Lavallie, Edward R.
APPLICANT: Collins-Racie, Lisa A.
APPLICANT: Evans, Cheryl
APPLICANT: Merberg, David
APPLICANT: Treacy, Maurice
APPLICANT: Agostino, Michael J.
APPLICANT: Steininger II, Robert J.
APPLICANT: Bowman, Michael R.
APPLICANT: Spaulding, Vilki
APPLICANT: Wong, Gordon G.
APPLICANT: Clark, Hilary
APPLICANT: Fechtel, Kim
APPLICANT: Howes, Steven H.
APPLICANT: Resnick, Richard J.
APPLICANT: Gulukota, Kamalakara
APPLICANT: Graham, James R.
APPLICANT: Genetics Institute, Inc.
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL SECRETED PROTEINS
FILE REFERENCE: GIN 6400
CURRENT APPLICATION NUMBER: US/09/822,846
PRIOR FILING DATE: 2001-03-29
PRIOR APPLICATION NUMBER: 60/195,605
PRIOR FILING DATE: 2000-04-06
NUMBER OF SEQ ID NOS: 629
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 350
LENGTH: 1127
TYPE: DNA
ORGANISM: Homo sapiens
US-09-822-846-350

Query Match 82.2%; Score 14.8; DB 9; Length 1127;
Best Local Similarity 88.9%; Pred. No. 4.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGACCAAAACACGAA 18
||||| ||||| |||||
Db 168 GAAACCAAAACACGAA 185

RESULT 10

US-09-938-842A-3548
Sequence 3548, Application US/09938842A
Patent No. US20020160378A1

GENERAL INFORMATION:

APPLICANT: Harper, Jeff
APPLICANT: Kreps, Joel
APPLICANT: Wang, Xun
APPLICANT: Zhu, Tong
TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
TITLE OF INVENTION: SAME, AND METHODS OF USE

FILE REFERENCE: SGRIP1300-3
CURRENT APPLICATION NUMBER: US/09/938,842A
CURRENT FILING DATE: 2001-08-24
PRIOR APPLICATION NUMBER: US 60/227,866
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/264,647
PRIOR FILING DATE: 2001-01-16
PRIOR APPLICATION NUMBER: US 60/300,111
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 5379
SEQ ID NO 3548
LENGTH: 1422
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-938-842A-3548

Query Match 82.2%; Score 14.8; DB 9; Length 1422;
Best Local Similarity 88.9%; Pred. No. 4.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGACCAAAACACGAA 18
||||| ||||| |||||
Db 92 GAGACCAACACACGAA 109

RESULT 11

US-09-887-576-139
Sequence 139, Application US/09887576
Patent No. US20020144047A1

GENERAL INFORMATION:

APPLICANT: Budworth, P.
APPLICANT: Brown, D.
APPLICANT: Chang, H.
APPLICANT: Zhu, T.
APPLICANT: Han, B.
APPLICANT: Wang, X.
APPLICANT: Cooper, Bret
TITLE OF INVENTION: Promoters for regulation of plant expression
FILE REFERENCE: 1360,001051
CURRENT APPLICATION NUMBER: US/09/887,576
CURRENT FILING DATE: 2001-06-25
PRIOR APPLICATION NUMBER: US 60/213,848
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: US 60/214,087
PRIOR FILING DATE: 2000-06-23
PRIOR APPLICATION NUMBER: US 60/258,692
PRIOR FILING DATE: 2000-12-29
NUMBER OF SEQ ID NOS: 875
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 139
LENGTH: 2000
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-887-576-139

Query Match 82.2%; Score 14.8; DB 10; Length 2000;
Best Local Similarity 88.9%; Pred. No. 4.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGACCAAAACACGAA 18
||||| ||||| |||||
Db 1770 GAGACCAAAACACGAA 1787

RESULT 12

US-09-925-442-33
Sequence 33, Application US/09925442
Patent No. US20020103346A1

GENERAL INFORMATION:

APPLICANT: VOGEL, CARL-WILHELM
BREDEHORST, REINHORST
KOCK, MICHAEL
FRITZINGER, DAVID

1
TITLE OF INVENTION: RECOMBINANT PROCVF
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
P.C.
STREET: 1755 S. JEFFERSON DAVIS HIGHWAY
CITY: ARLINGTON
STATE: VA
COUNTRY: USA
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/925,442
FILING DATE: 10-Aug-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/017,947
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: OBLON, NORMAN F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 1126-0107-0X
TELECOMMUNICATION INFORMATION:
TELEPHONE: 703-413-3000
TELEFAX: 703-413-2220
INFORMATION FOR SEQ ID NO: 33:
SEQUENCE CHARACTERISTICS:
LENGTH: 4138 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
SEQUENCE DESCRIPTION: SEQ ID NO: 33:
US-09-925-442-33
Query Match 82.2%; Score 14.8; DB 10; Length 4138;
Best Local Similarity 88.9%; Pred. No. 4.9e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GAGACCAAAACACGAA 18
|||||
DB 2961 GAGACCAAACTCAACGAA 2978
RESULT 13
US-09-070-927A-294
Sequence 294, Application US/09070927A
Patent No. US20020120116A1
GENERAL INFORMATION:
APPLICANT: Charles A. Kunsch
Patrick J. Dillon
Steven Barash
TITLE OF INVENTION: Enterococcus faecialis polynucleotides and Polypeptides
NUMBER OF SEQUENCES: 982
CORRESPONDENCE ADDRESS:
ADDRI SEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/070,927A
FILING DATE: 04-May-2000

CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/046,655
FILING DATE: 1997-05-16
APPLICATION NUMBER: 60/044,031
FILING DATE: 1997-05-06
APPLICATION NUMBER: 60/066,009
FILING DATE: 1997-11-14
ATTORNEY/AGENT INFORMATION:
NAME: Kenley K. Hoover
REGISTRATION NUMBER: 40,302
REFERENCE/DOCKET NUMBER: PB369
TELECOMMUNICATION INFORMATION:
TELEPHONE: (401) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 294:
SEQUENCE CHARACTERISTICS:
LENGTH: 4607 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 294:
US-09-070-927A-294
Query Match 82.2%; Score 14.8; DB 10; Length 4607;
Best Local Similarity 88.9%; Pred. No. 5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GAGACCAAAACACGAA 18
|||||
DB 2682 GAGACCAAAACACGAA 2699
RESULT 14
US-09-070-927A-. /9/c
Sequence 279, Application US/09070927A
Patent No. US:0020120116A1
GENERAL INFORMATION:
APPLICANT: Charles A. Kunsch
Patrick J. Dillon
Steven Barash
TITLE OF INVENTION: Enterococcus faecialis polynucleotides and Polypeptides
NUMBER OF SEQUENCES: 982
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/070,927A
FILING DATE: 04-May-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/046,655
FILING DATE: 1997-05-16
APPLICATION NUMBER: 60/044,031
FILING DATE: 1997-05-06
APPLICATION NUMBER: 60/066,009
FILING DATE: 1997-11-14
ATTORNEY/AGENT INFORMATION:
NAME: Kenley K. Hoover
REGISTRATION NUMBER: 40,302
REFERENCE/DOCKET NUMBER: PB369
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512

INFORMATION FOR SEQ ID NO: 279:
SEQUENCE CHARACTERISTICS:
LENGTH: 15363 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
SEQUENCE DESCRIPTION: SEQ ID NO: 279:
US-09-070-927A-279

Query Match 82.2% Score 14.8; DB 10; Length 15363;
Best Local Similarity 88.9% Pred. No. 5.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GAGACCAAAACACGAA 18
|||
Db 3515 GAAACCAAAATCAACGAA 3498

RESULT 15
US-09-770-791-303/c
Sequence 303, Application US/09770791
Patent No. US2002062014A1
GENERAL INFORMATION:
APPLICANT: Gorlach, Jörn
APPLICANT: An, Yong-Qiang
APPLICANT: Hamilton, Carol M.
APPLICANT: Price, Jennifer L.
APPLICANT: Raines, Tracy M.
APPLICANT: Yu, Yang
APPLICANT: Rameaka, Joshua G.
APPLICANT: Page, Amy
APPLICANT: Mathew, Abraham V.
APPLICANT: Ledford, Brooke L.
APPLICANT: Woessner, Jeffrey P.
APPLICANT: Haas, William David
APPLICANT: Garcia, Carlos A.
APPLICANT: Krieker, Maja
APPLICANT: Slader, Ted
APPLICANT: Davis, Keith R.
APPLICANT: Allen, Keith
APPLICANT: Hoffman, Neil
APPLICANT: Hurban, Patrick
TITLE OF INVENTION: Expressed Sequences of Arabidopsis
TITLE OF INVENTION: thaliana
FILE REFERENCE: 2029 (PARA-018PRV)
CURRENT APPLICATION NUMBER: US/09/770,791
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: 60/178,480
PRIOR FILING DATE: 2000-01-27
NUMBER OF SEQ ID NOS: 999
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 303
LENGTH: 373
TYPE: DNA
ORGANISM: Arabidopsis thaliana
US-09-770-791-303

Query Match 80.0% Score 14.4; DB 10; Length 373;
Best Local Similarity 93.8% Pred. No. 5.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 AGACCAAAACACGAA 17
|||
Db 253 AGCCCAAAACACGAA 238

Search completed: February 18, 2003, 07:08:05
Job time : 104.209 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 36.4112 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-14
Perfect score: 25
Sequence: 1 GAATTCATCATCAGCAATCTGCAGA 25

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapept 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Issued_Patents_NA:*

1: /cgn2_6/ptodata/2/1na/5A.COMB.seq:**
2: /cgn2_6/ptodata/2/1na/5B.COMB.seq:**
3: /cgn2_6/ptodata/2/1na/6A.COMB.seq:**
4: /cgn2_6/ptodata/2/1na/6B.COMB.seq:**
5: /cgn2_6/ptodata/2/1na/PTOS.COMB.seq:**
6: /cgn2_6/ptodata/2/1na/Backfile1.seq:**

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21.8	87.2	4403765	4	US-09-103-840A-2
2	16.8	67.2	2202	4	US-09-465-558-59
3	16.6	66.4	807	2	US-08-270-584A-1
4	16.6	66.4	807	2	US-08-765-192-1
5	16.6	66.4	807	3	US-09-199-793-1
6	16.6	66.4	959	2	US-08-568-031-1
7	16.6	66.4	959	2	US-08-966-319-1
8	16.6	66.4	959	3	US-09-153-304-1
9	16.6	66.4	2188	1	US-07-882-925A-4
10	16.6	66.4	2188	1	US-08-184-012C-4
11	16.6	66.4	2266	2	US-08-724-394A-18
12	16.6	66.4	3805	4	US-09-221-017B-923
13	16.6	66.4	6751	1	US-07-882-925A-5
14	16.6	66.4	6751	1	US-08-184-012C-5
15	16.6	66.4	7147	4	US-08-961-527-23
16	16.6	66.4	43360	4	US-09-453-702B-206
17	16.6	66.4	45325	4	US-09-453-702B-261
18	16.6	66.4	246240	2	US-08-724-394A-20
19	16.6	66.4	246240	2	US-08-724-394A-21
20	16.6	66.4	246240	2	US-08-724-394A-22
21	16.2	64.8	1225	1	US-08-547-182-1
22	16.2	64.8	1395	3	US-08-467-023-140
23	16.2	64.8	1410	3	US-08-467-023-139
24	16.2	64.8	1479	3	US-08-467-023-141
25	16.2	64.8	1726	3	US-08-467-023-133
26	16.2	64.8	13187	4	US-09-422-936-61
27	16	64.0	46	1	US-08-427-640-28

28	16	64.0	669	3	US-09-181-183-27	Sequence 27, Appl
29	16	64.0	669	4	US-09-280-040-27	Sequence 27, Appl
30	16	64.0	669	4	US-09-277-700-27	Sequence 27, Appl
31	16	64.0	862	3	US-08-713-569-4	Sequence 7, Appl
32	16	64.0	1068	1	US-08-427-640-7	Sequence 4, Appl
33	16	64.0	1350	3	US-08-462-351-1	Sequence 1, Appl
34	16	64.0	1350	4	US-09-602-807-1	Sequence 1, Appl
35	16	64.0	2200	4	US-08-272-255-21	Sequence 21, Appl
36	16	64.0	2200	5	PCT-US95-08565-21	Sequence 21, Appl
37	16	64.0	28720	4	US-09-341-587-7	Sequence 7, Appl
38	15.8	63.2	2003	3	US-08-468-011A-1	Sequence 1, Appl
39	15.8	63.2	2003	4	US-09-236-468A-1	Sequence 1, Appl
40	15.8	63.2	2003	5	PCT-US95-07085-1	Sequence 1, Appl
41	15.6	62.4	607	4	US-09-328-111-419	Sequence 1, Appl
42	15.6	62.4	1384	4	US-09-372-422A-17	Sequence 17, Appl
43	15.6	62.4	1750	4	US-09-345-882-28	Sequence 28, Appl
44	15.6	62.4	1854	4	US-09-724-864-29	Sequence 29, Appl
45	15.6	62.4	2012	2	US-08-555-568B-16	Sequence 16, Appl

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; US-09-103-840A-2

Query Match      87.2%: Score 21.8; DB 4; Length 4403765;
Best Local Similarity 92.0%: Pred. No. 0.87;
Matches 23; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GAATTCATCATCAGCAATCTGCAGA 25
Db 3081425 GAATTCATCATCAGCAATCTGCAGA 3081449

RESULT 2
US-09-465-558-59/c
; Sequence 59, Application US/09465558
; Patent No. 6436657
; GENERAL INFORMATION:
; APPLICANT: Morakinyo, Layo O.
; APPLICANT: Orozco Jr, Emil M.
; TITLE OF INVENTION: TETRAHYDROFOLATE METABOLIC ENZYMES
; FILE REFERENCE: B91322 US NA
; CURRENT APPLICATION NUMBER: US/09/465,558
; CURRENT FILING DATE: 1999-12-17
; EARLIER APPLICATION NUMBER: 60/112,734
; EARLIER FILING DATE: 1998-12-18
; NUMBER OF SEQ ID NOS: 70
; SOFTWARE: Microsoft Office 97
```

SEQ ID NO 59
LENGTH: 2202
TYPE: DNA
ORGANISM: Glycine max
US-09-465-558-59

Query Match 67.2% Score 16.8; DB 4; Length 2202;
Best Local Similarity 90.0%; Pred. No. 48;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GAATCCCATCAGCAATCTT 20
|||||
DB 1101 GAATCCCATCAGCAATATT 1082

RESULT 3
US-08-270-584A-1
Sequence 1, Application US/08270584A
Patent No. 5710035
GENERAL INFORMATION:
APPLICANT: GREENE, ET AL.
TITLE OF INVENTION: Human Elastase IV
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: CAREILA, BYRNE, BAIN, GILFILLAN,
ADDRESSEE: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/270,584A
FILING DATE: July 5, 1994
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-126
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 807 BASE PAIRS
TYPE: NUCLEIC ACID
STRANDEDNESS: SINGLE
TOPOLOGY: LINEAR
MOLECULE TYPE: CDNA
US-08-270-584A-1

Query Match 66.4% Score 16.6; DB 1; Length 807;
Best Local Similarity 82.6%; Pred. No. 49;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 ATTCCCATCAGCAATCTTGAGA 25
|||||
DB 364 ATTGCCCTCATCAAGCTTGAGA 386

RESULT 4
US-08-765-192-1
Sequence 1, Application US/08765192
Patent No. 5851814
GENERAL INFORMATION:

APPLICANT: Greene, John et al.
TITLE OF INVENTION: Human Elastase IV
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: MD
COUNTRY: US
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/765,192
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PFI2505
TELECOMMUNICATION INFORMATION:
TELEPHONE: 3013098439
TELEFAX: 3013098504
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 807 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-765-192-1

Query Match 66.4% Score 16.6; DB 2; Length 807;
Best Local Similarity 82.6%; Pred. No. 49;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 ATTCCCATCAGCAATCTT AGA 25
|||||
DB 364 ATTGCCCTCATCAAGCTTGAGA 386

RESULT 5
US-09-199-793-1
Sequence 1, Application US/09199793
Patent No. 6107075
GENERAL INFORMATION:
APPLICANT: Greene, John et al.
TITLE OF INVENTION: Human Elastase IV
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: MD
COUNTRY: US
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/199,793
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/765,192
FILING DATE: Apr-24-97
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:

```

NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PF12505
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-309-8504
TELEFAX: 301-309-8439
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 807 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-199-793-1

Query Match
Best Local Similarity 66.4%; Score 16.6; DB 3; Length 807;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 ATTCCATCAGCATCTTGACA 25
DB 364 ATTGCCCTCATCAGCTTGACA 386

RESULT 6
US-08-568-031-1
Sequence 1, Application US/08568031
Patent No. 5738991
GENERAL INFORMATION:
APPLICANT: Braxton, Scott M.
APPLICANT: Diep, Dinh
APPLICANT: Deleage, Angelo M.
TITLE OF INVENTION: HOMOLOG OF RAT ELASTASE IV DERIVED FROM
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESS: INCYTE PHARMACEUTICALS, INC.
STREET: 3330 Hillview Avenue
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/568,031
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33954
REFERENCE/DOCKET NUMBER: PF-0046 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 959 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: HUMAN ELASTASE HOMOLOG
CLONE: 226990
US-08-568-031-1

Query Match
Best Local Similarity 66.4%; Score 16.6; DB 1; Length 959;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```

QY 3 ATTCCATCAGCATCTTGACA 25
DB 385 ATTGCCCTCATCAGCTTGACA 407

RESULT 7
US-08-966-319-1
Sequence 1, Application US/08966319
Patent No. 5856109
GENERAL INFORMATION:
APPLICANT: Braxton, Scott M.
APPLICANT: Diep, Dinh
APPLICANT: Deleage, Angelo M.
TITLE OF INVENTION: HOMOLOG OF RAT ELASTASE IV DERIVED FROM
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESS: INCYTE PHA. JACUTICALS, INC.
STREET: 3330 Hillview Avenue
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/966,319
FILING DATE: 07-NOV-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/568,031
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Luther, Barbara J.
REGISTRATION NUMBER: 33954
REFERENCE/DOCKET NUMBER: PF-0046 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-855-0555
TELEFAX: 415-852-0195
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 959 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
IMMEDIATE SOURCE:
LIBRARY: HUMAN ELASTASE HOMOLOG
CLONE: 226990
US-08-966-319-1

Query Match
Best Local Similarity 66.4%; Score 16.6; DB 2; Length 959;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 ATTCCATCAGCATCTTGACA 25
DB 385 ATTGCCCTCATCAGCTTGACA 407

RESULT 8
US-09-153-304-1
Sequence 1, Application US/09153304
Patent No. 6030791
GENERAL INFORMATION:
APPLICANT: Braxton, Scott M.
APPLICANT: Diep, Dinh
APPLICANT: Deleage, Angelo M.
TITLE OF INVENTION: HOMOLOG OF RAT ELASTASE IV DERIVED FROM
```



```
;
; HYPOTHETICAL: NO
; ANTI-SENSE: UNKNOWN
; ORIGINAL SOURCE:
; ORGANISM: PORPHYROMONAS GINGIVALIS
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1...3805
; US-09-221-017B-923

Query Match      66.4%; Score 16.6; DB 4; Length 3805;
Best Local Similarity 82.6%; Pred. No. 66;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 2 ATTCCTCAGCAATCTTCGAC 24
    ||||| || ||||| |||||
Db 169 ATTCCGCTTCAATCTTCGAC 191

RESULT 13
US-07-882-925A-5/c
; Sequence 5, Application US/07882925A
; Patent No. 5315000
; GENERAL INFORMATION:
; APPLICANT: Degen, Sandra J. F.
; TITLE OF INVENTION: Gene for a growth factor and its cDNA and
; TITLE OF INVENTION: Protein
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gregory Lunn
; STREET: Wood, Herron & Evans, 2700 Carew Tower
; CITY: Cincinnati
; STATE: Ohio
; COUNTRY: USA
; ZIP: 45202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 800 KB
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 6.0.3
; SOFTWARE: Microsoft Word 4.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/882,925A
; FILING DATE: 19920514
; CLASSIFICATION: 530
; ATTORNEY/AGENT INFORMATION:
; NAME: Lunn, Gregory
; REGISTRATION NUMBER: 29,945
; REFERENCE/DOCKET NUMBER: CMC 57
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (513) 241-2324
; TELEFAX: (513) 421-7269
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6751 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; ANTI-SENSE: no
; ORIGINAL SOURCE:
; ORGANISM: mouse
; STRAIN: Balb/c
; DEVELOPMENTAL STAGE: adult
; TISSUE TYPE: liver
; IMMEDIATE SOURCE:
; LIBRARY: genomic
; CLONE: MGL5-12
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: mouse 9, Hgf1 locus
; MAP POSITION: Trf-Gna1-2-Hgf1-Cck
; FEATURE:
; IDENTIFICATION METHOD: experimental
; PUBLICATION INFORMATION:
; RELEVANT RESIDUES IN SEQ ID NO: 5: 1 TO 6751
```

```
US-07-882-925A-5

Query Match      66.4%; Score 16.6; DB 1; Length 6751;
Best Local Similarity 82.6%; Pred. No. 74;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 ATTCCTCAGCAATCTTCGACA 25
    || ||||| || ||||| |||||
Db 4124 ATCCCATCAGATTCCTTCGACA 4102

RESULT 14
US-08-184-012C-5/c
; Sequence 5, Application US/08184012C
; Patent No. 5606029
; GENERAL INFORMATION:
; APPLICANT: Degen, Sandra J. F.
; TITLE OF INVENTION: Gene for a growth factor and its cDNA and
; TITLE OF INVENTION: Protein
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Gregory Lunn
; STREET: Wood, Herron & Evans, 2700 Carew Tower
; CITY: Cincinnati
; STATE: Ohio
; COUNTRY: USA
; ZIP: 45202
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 800 KB
; COMPUTER: Apple Macintosh
; OPERATING SYSTEM: Macintosh 7.5.2
; SOFTWARE: Microsoft Word 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/184,012C
; FILING DATE: 1/18/94
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Lunn, Gregory
; REGISTRATION NUMBER: 29,945
; REFERENCE/DOCKET NUMBER: CMC 57
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (513) 241-2324
; TELEFAX: (513) 421-7269
; INFORMATION FOR SEQ ID NO: 5:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6751 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: genomic DNA
; ANTI-SENSE: no
; ORIGINAL SOURCE:
; ORGANISM: mouse
; STRAIN: Balb/c
; DEVELOPMENTAL STAGE: adult
; TISSUE TYPE: liver
; IMMEDIATE SOURCE:
; LIBRARY: genomic
; CLONE: MGL5-12
; POSITION IN GENOME:
; CHROMOSOME/SEGMENT: mouse 9, Hgf1 locus
; MAP POSITION: Trf-Gna1-2-Hgf1-Cck
; FEATURE:
; IDENTIFICATION METHOD: experimental
; PUBLICATION INFORMATION:
; RELEVANT RESIDUES IN SEQ ID NO: 5: 1 TO 6751
; US-08-184-012C-5

Query Match      66.4%; Score 16.6; DB 1; Length 6751;
Best Local Similarity 82.6%; Pred. No. 74;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 ATTCCTCAGCAATCTTCGACA 25
```


Db 4124 ATCCCATCAGCATCTCTGCAGA 4102

RESULT 15

US-08-961-527-23

; Sequence 23, Application US/08961527

; Patent No. 6420135

; GENERAL INFORMATION:

; APPLICANT: Charles Kunsch

; TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences

; NUMBER OF SEQUENCES: 391

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Human Genome Sciences, Inc.

; STREET: 9410 Key West Avenue

; CITY: Rockville

; STATE: Maryland

; COUNTRY: USA

; ZIP: 20850

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Diskette, 3.50 inch, 1.4mb storage

; OPERATING SYSTEM: MSDOS version 6.2

; SOFTWARE: ASCII Text

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/961,527

; FILING DATE:

; CLASSIFICATION: 424

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER:

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Brookes, A. Anders

; REGISTRATION NUMBER: 36,373

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (301) 309-8504

; TELEFAX: (301) 309-8512

; INFORMATION FOR SEQ ID NO: 23:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 7147 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: double

; TOPOLOGY: linear

; US-08-961-527-23

Query Match 66.4%; Score 16.6; DB 4; Length 7147;

Best Local Similarity 82.6%; Pred. No. 75;

Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 ATCCCATCAGCATCTTGCAGA 25

Db 1846 ATCCCATCAGCATCTTGCAGA 1868

Search completed: February 17, 2003, 22:35:02
Job time : 1244.41 secs

SIL, FRANCIS et al.

```
; TITLE OF INVENTION: Estrogen receptor alpha variants and
; FILE REFERENCE: C1000258C14
; CURRENT APPLICATION NUMBER: US/09/933,267A
; CURRENT FILING DATE: 2001-08-21
; PRIOR APPLICATION NUMBER: 60/160626
; PRIOR FILING DATE: 1999-10-20
; PRIOR APPLICATION NUMBER: 60/183756
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: 09/692414
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 09/768184
; PRIOR FILING DATE: 2001-01-24
; PRIOR APPLICATION NUMBER: 09/804076
; PRIOR FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: 09/826314
; PRIOR FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 465237
; TYPE: DNA
; ORGANISM: human
US-09-933-267A-1
```

```
Query Match          68.8%; Score 17.2; DB 10; Length 465237;
Best Local Similarity 86.4%; Pred. No. 2e+02;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
OY      3  ATTCCCATCAGCATCTTGACG  24
Db      5582  ATTCCCATCAGCATGTAGAAG  5603
```

```
RESULT 3
US-09-867-701-554/C
; Sequence 554, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Agiate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 554
; LENGTH: 151
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(151)
; OTHER INFORMATION: n = A,T,C or G
US-09-867-701-554
```

```
Query Match          68.0%; Score 17; DB 10; Length 151;
Best Local Similarity 80.0%; Pred. No. 77;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
OY      1  GAATTCATCAGCATCTTGACG  25
Db      52  GATTCATCAGCAAACTCTGCAG  28
```

```
RESULT 4
US-09-960-352-14695/C
; Sequence 14695, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 14695
; LENGTH: 274
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 63-LIB188-025-Q1-E1-H12
US-09-960-352-14695
```

```
Query Match          68.0%; Score 17; DB 10; Length 274;
Best Local Similarity 80.0%; Pred. No. 84;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
OY      1  GAATTCATCAGCATCTTGACG  25
Db      71  GCATTCATCTCTGCATTTTGACG  47
```

```
RESULT 5
US-09-960-352-714
; Sequence 714, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 714
; LENGTH: 308
; TYPE: DNA
; ORGANISM: Bos taurus
; OTHER INFORMATION: Clone ID: 04-LIB188-006-Q1-E1-A7
US-09-960-352-714
```

```
Query Match          68.0%; Score 17; DB 10; Length 308;
Best Local Similarity 80.0%; Pred. No. 86;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
OY      1  GAATTCATCAGCATCTTGACG  25
Db      205  GCATTCATCTCTGCATTTTGACG  229
```

```
RESULT 6
US-09-960-352-7832
; Sequence 7832, Application US/09960352
; Patent No. US20020137139A1
; GENERAL INFORMATION:
; APPLICANT: Warren, Wesley C.
; APPLICANT: Tao, Nengbing
; APPLICANT: Byatt, John C.
; APPLICANT: Mathialagan, Nagappan
; TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
; TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION
; FILE REFERENCE: 16511.006/37-21(10298)C
; CURRENT APPLICATION NUMBER: US/09/960,352
; CURRENT FILING DATE: 2001-09-24
; NUMBER OF SEQ ID NOS: 15112
; SEQ ID NO 7832
```

```
LENGTH: 337
TYPE: DNA
ORGANISM: Bos taurus
OTHER INFORMATION: Clone ID: 34-LIB188-006-Q1-E1-A6
US-09-960-352-7832
```

```
Query Match          68.0%: Score 17; DB 10; Length 337;
Best Local Similarity 80.0%: Pred. No. 87;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
QY 1 GAATTCCTCAGCAATCTTGACA 25
    ||||| ||||| |||||
DB 234 GCATTCATCTCGCAATTTGCAGA 258
```

RESULT 7

```
US-09-960-352-4974
Sequence 4974, Application US/09960352
Patent No. US20020137139A1
```

GENERAL INFORMATION:

APPLICANT: Warren, Wesley C.

APPLICANT: Tao, Nengding

APPLICANT: Byatt, John C.

APPLICANT: Mathalagan, Nagappan

TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND

TITLE OF INVENTION: MUSCLE AND FAT DEPOSITION

FILE REFERENCE: 16511.006/37-21(10298)C

CURRENT APPLICATION NUMBER: US/09/960.352

CURRENT FILING DATE: 2001-09-24

NUMBER OF SEQ ID NOS: 15112

SEQ ID NO 4974

LENGTH: 364

TYPE: DNA

ORGANISM: Bos taurus

OTHER INFORMATION: Clone ID: 22-LIB188-008-Q1-E1-F9

US-09-960-352-4974

```
Query Match          68.0%: Score 17; DB 10; Length 364;
Best Local Similarity 80.0%: Pred. No. 88;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
QY 1 GAATTCCTCAGCAATCTTGACA 25
    ||||| ||||| |||||
DB 204 GCATTCATCTCGCAATTTGCAGA 228
```

RESULT 8

```
US-09-770-444-571
Sequence 571, Application US/09770444
```

Patent No. US20020023280A1

GENERAL INFORMATION:

APPLICANT: Goriach, Jörn

APPLICANT: An, Yong-Qiang

APPLICANT: Hamilton, Carol M.

APPLICANT: Price, Jennifer L.

APPLICANT: Raines, Tracy M.

APPLICANT: Yu, Yang

APPLICANT: Rameaka, Joshua G.

APPLICANT: Page, Amy

APPLICANT: Matthew, Abraham V.

APPLICANT: Ledford, Brooke L.

APPLICANT: Woessner, Jeffrey P.

APPLICANT: Haas, William David

APPLICANT: Garcia, Carlos A.

APPLICANT: Krieger, Meja

APPLICANT: Slader, Ted

APPLICANT: Davis, Keith R.

APPLICANT: Allen, Keith

APPLICANT: Hoffman, Neil

APPLICANT: Hurlan, Patrick

TITLE OF INVENTION: Expressed Sequences of Arabidopsis

TITLE OF INVENTION: thaliana

FILE REFERENCE: 2027 (PARA-016PRV)

```
CURRENT APPLICATION NUMBER: US/09/770.444
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: 60/178,502
PRIOR FILING DATE: 2000-01-27
NUMBER OF SEQ ID NOS: 999
SOFTWARE: fastseq for Windows Version 4.0
SEQ ID NO 571
LENGTH: 455
TYPE: DNA
ORGANISM: Arabidopsis thaliana
```

```
Query Match          68.0%: Score 17; DB 10; Length 455;
Best Local Similarity 80.0%: Pred. No. 91;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
QY 1 GAATTCCTCAGCAATCTTGACA 25
    ||||| ||||| |||||
DB 227 GAATTCCTCAGCAATCTTGACA 251
```

RESULT 9

```
US-09-998-598-50
Sequence 50, Application US/0998598
Patent No. US20020150922A1
```

GENERAL INFORMATION:

APPLICANT: Stoik, John A.

APPLICANT: Xu, Jiangchun

APPLICANT: Chenault, Ruth A.

APPLICANT: Meagher, Madeline Joy

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER

FILE REFERENCE: 210121.561

CURRENT APPLICATION NUMBER: US/09/998.598

CURRENT FILING DATE: 2001-11-16

NUMBER OF SEQ ID NOS: 2606

SOFTWARE: Corlax Invention Disclosure Database

SEQ ID NO 50

LENGTH: 505

TYPE: DNA

ORGANISM: Homo sapiens

US-09-998-598-50

```
Query Match          68.0%: Score 17; DB 10; Length 505;
Best Local Similarity 80.0%: Pred. No. 92;
Matches 20; Conservative 0; Mismatches 5; Indels 0; Gaps 0;
```

```
QY 1 GAATTCCTCAGCAATCTTGACA 25
    ||||| ||||| |||||
DB 435 GATTCCTCAGCAATCTTGACA 459
```

RESULT 10

```
US-09-864-761-11993
Sequence 11993, Application US/09864761
```

Patent No. US20020048763A1

GENERAL INFORMATION:

APPLICANT: Penn, Sharon G.

APPLICANT: Rank, David R.

APPLICANT: Hanzel, David K.

APPLICANT: Chen, Wensheng

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FO

TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY

FILE REFERENCE: Aeomica-X-1

CURRENT APPLICATION NUMBER: US/09/864.761

CURRENT FILING DATE: 2001-05-23

PRIOR APPLICATION NUMBER: US 60/180,312

PRIOR FILING DATE: 2000-02-04

PRIOR APPLICATION NUMBER: US 60/207,456

```

; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 11993
; LENGTH: 532
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL157997.2
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.75
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.94
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.89
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.2
; US-09-864-761-11993

Query Match          68.0%: Score 17; DB 10; Length 532:
Best Local Similarity 80.0%: Pred. No. 93:
Matches 20: Conservative 0; Mismatches 5; Indels 0; Gaps 0:

QY      1 GAATTCATCAGCAATCTTGACA 25
      111111111111111111111111
Db      371 GCATTCCTTAGCAATCTTGACA 395

RESULT 11
US-09-777-921A-60
; Sequence 60, Application US/09777921A
; Patent No. US2002015136A1
; GENERAL INFORMATION:
; APPLICANT: MERKULOV et al.
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NOCLETIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; FILE REFERENCE: CL001103
; CURRENT APPLICATION NUMBER: US/09/777,921A
; NUMBER OF SEQ ID NOS: 126
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 60
```

```

; LENGTH: 601
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-777-921A-60

Query Match          68.0%: Score 17; DB 10; Length 601:
Best Local Similarity 80.0%: Pred. No. 95:
Matches 20: Conservative 0; Mismatches 5; Indels 0; Gaps 0:

QY      1 GAATTCATCAGCAATCTTGACA 25
      111111111111111111111111
Db      349 GATTCGATCAGCAATGCTGCACA 373

RESULT 12
US-09-938-842A-704
; Sequence 704, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Kreps, Joel
; APPLICANT: Wang, Xun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCDP1300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; PRIOR FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5379
; SEQ ID NO 704
; LENGTH: 1488
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
; US-09-938-842A-704

Query Match          68.0%: Score 17; DB 9; Length 1488:
Best Local Similarity 80.0%: Pred. No. 11e+02:
Matches 20: Conservative 0; Mismatches 5; Indels 0; Gaps 0:

QY      1 GAATTCATCAGCAATCTTGACA 25
      111111111111111111111111
Db      1159 GAATTCATCAGCAACCTTGACA 1183

RESULT 13
US-09-998-598-359
; Sequence 359, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: SLOK, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenuault, Ruth A.
; APPLICANT: Meagher, Madeleine Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; PRIOR FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
; SEQ ID NO 359
; LENGTH: 1754
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-998-598-359

Query Match          68.0%: Score 17; DB 10; Length 1754:
```


GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 : Search time 26.216 Seconds
(without alignments)
210.365 Million cell updates/sec

Title: US-09-362-485-15
Perfect score: 18
Sequence: 1 GCCCGATGACGAGTC 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: Issued_Patents_NA:*
2: /cgn2_6/prodata/2/lna/5a_COMB.seq:*
3: /cgn2_6/prodata/2/lna/5b_COMB.seq:*
4: /cgn2_6/prodata/2/lna/6a_COMB.seq:*
5: /cgn2_6/prodata/2/lna/6b_COMB.seq:*
6: /cgn2_6/prodata/2/lna/pctus_COMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	4403765	4	US-09-103-840A-2
2	14.8	82.2	7011	1	US-08-306-691B-42
3	14.4	80.0	1680	4	US-09-134-001C-884
4	14.4	80.0	4348	2	US-08-915-868-1
5	14.4	80.0	4403765	4	US-09-103-840A-2
6	14	77.8	2014	1	US-07-798-776-1
7	14	77.8	2014	3	US-08-251-288A-1
8	14	77.8	2014	3	US-09-298-819A-1
9	14	77.8	2014	4	US-09-586-563C-1
10	14	77.8	2014	4	US-09-586-562C-1
11	14	77.8	4934	4	US-09-221-017B-965
12	13.8	76.7	1251	2	US-08-851-088-5
13	13.8	76.7	2234	4	US-09-221-017B-957
14	13.8	76.7	5535	1	US-08-089-755A-1
15	13.8	76.7	5535	1	US-08-089-755A-4
16	13.8	76.7	5535	1	US-08-421-754-1
17	13.8	76.7	5535	1	US-08-421-754-4
18	13.8	76.7	5535	2	US-08-421-791-1
19	13.8	76.7	5535	2	US-08-421-791-4
20	13.8	76.7	5596	4	US-08-965-762-1
21	13.8	76.7	5596	4	US-09-911-927-1
22	13.8	76.7	5596	4	US-09-911-927-3
23	13.8	76.7	5596	4	US-09-911-882-1
24	13.8	76.7	5596	4	US-09-911-882-3
25	13.8	76.7	40352	3	US-08-846-111D-15
26	13.8	76.7	40352	4	US-09-443-077-15
27	13.8	76.7	4411529	4	US-09-103-840A-1

28	13.4	74.4	1303	3	US-08-894-440-2	Sequence 2, Appl1
29	13.4	74.4	1303	4	US-09-458-093-2	Sequence 2, Appl1
30	13.4	74.4	3200	1	US-08-453-104-23	Sequence 23, Appl1
31	13.4	74.4	3200	2	US-08-694-824-23	Sequence 23, Appl1
32	13.4	74.4	3201	1	US-08-453-104-22	Sequence 22, Appl1
33	13.4	74.4	3201	2	US-08-694-824-22	Sequence 22, Appl1
34	13.4	74.4	4946	3	US-08-817-188-1	Sequence 7, Appl1
35	13.4	74.4	5349	4	US-09-068-101-7	Sequence 5, Appl1
36	13.4	74.4	5560	3	US-08-817-188-5	Sequence 4, Appl1
37	13.4	74.4	5864	3	US-08-894-440-4	Sequence 4, Appl1
38	13.4	74.4	5864	3	US-08-894-440-4	Sequence 4, Appl1
39	13.4	74.4	5864	4	US-09-458-093-4	Sequence 4, Appl1
40	13.4	74.4	5864	4	US-09-458-093-4	Sequence 1, Appl1
41	13.4	74.4	6548	3	US-08-894-440-1	Sequence 2, Appl1
42	13.4	74.4	6548	3	US-08-817-188-2	Sequence 1, Appl1
43	13.4	74.4	6548	4	US-09-458-093-1	Sequence 1, Appl1
44	13.4	74.4	7566	2	US-08-232-016-23	Sequence 23, Appl1
45	13.4	74.4	7639	2	US-08-232-016-22	Sequence 22, Appl1

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2
: Sequence 2, Application US/09103840A
: Patent No. 6294328
: GENERAL INFORMATION:
: APPLICANT: FLEISCHMAN, Robert D.
: APPLICANT: WHITE, Owen K.
: APPLICANT: FRASER, Claire M.
: APPLICANT: VENER, John C.
: TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
: TITLE OF INVENTION: TUBERCULOSIS
: FILE REFERENCE: 24366-20007.00
: CURRENT APPLICATION NUMBER: US/09/103,840A
: CURRENT FILING DATE: 1998-06-24
: NUMBER OF SEQ ID NOS: 2
: SOFTWARE: Patentln Ver. 2.1
: SEQ ID NO 2
: LENGTH: 4403765
: TYPE: DNA
: ORGANISM: Mycobacterium tuberculosis
: FEATURE:
: OTHER INFORMATION: CDC 1551
: OTHER INFORMATION: "n" bases at various positions throughout the sequence
US-09-103-840A-2

Query Match      100.0%: Score 18; DB 4; Length 4403765;
Best Local Similarity 100.0%: Pred. No. 1.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GCCCGATGACGAGTC 18
Db 3081890 GCCCGATGACGAGTC 3081907

RESULT 2
US-08-306-691B-42/c
: Sequence 42, Application US/08306691B
: Patent No. 5734039
: GENERAL INFORMATION:
: APPLICANT: Calabretta, Bruno
: APPLICANT: Skorski, Tomasz
: TITLE OF INVENTION: ANTISENSE
: TITLE OF INVENTION: OLIGONUCLEOTIDES TARGETING COOPERATING ONCOGENES
: NUMBER OF SEQUENCES: 55
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Seidel, Gonda, Lavorgna & Monaco, P.C.
: STREET: Two Penn Center, Suite 1800
: CITY: Philadelphia
: STATE: Pennsylvania
```

```

; COUNTRY: U.S.A.
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 Inch, 720 KB
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: Wordperfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/306,691B
; FILING DATE: September 15, 1994
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Monaco, Daniel A.
; REGISTRATION NUMBER: 30,480
; REFERENCE/DOCKET NUMBER: 8321-8
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-8383
; TELEFAX: (215) 568-5549
; TELETYPE: No. 5734039e
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 7011 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-306-691B-42
;
Query Match 82.2%; Score 14.8; DB 1; Length 7011;
Best Local Similarity 88.9%; Pred. No. 36;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GCCCGCATGACGCAAGTC 18
    ||| ||| ||| ||| |||
Db 2735 GCCCAGATCAGCGAAGTC 2718

RESULT 3
US-09-134-001C-884
; Sequence 884, Application US/09134001C
; Patent No. 6380370
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GTC-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 884
; LENGTH: 1680
; TYPE: DNA
; ORGANISM: Staphylococcus epidermidis
;
US-09-134-001C-884
;
Query Match 80.0%; Score 14.4; DB 4; Length 1680;
Best Local Similarity 93.8%; Pred. No. 51;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 CCCCCATGACGCAAGT 17
    ||| ||| ||| ||| |||
Db 165 CCCTGATGACGCAAGT 180

RESULT 4
US-08-915-868-1
; Sequence 1, Application US/08915868
```

```

; Patent No. 5914233
; GENERAL INFORMATION:
; APPLICANT: Mundy, Gregory R.
; APPLICANT: Gailwitz, Wolf
; TITLE OF INVENTION: SCREENING ASSAY FOR THE IDENTIFICATION
; TITLE OF INVENTION: OF AGENTS WHICH INHIBIT CANCER
; TITLE OF INVENTION: METASTASIS TO BONE
; NUMBER OF SEQUENCES: 1
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Arnold, White & Durkee
; STREET: P.O. Box 4433
; CITY: Houston
; STATE: Texas
; COUNTRY: USA
; ZIP: 77210
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/915,868
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/025,215
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Highlander, Steven L.
; REGISTRATION NUMBER: 37,642
; REFERENCE/DOCKET NUMBER: OSTs:002P21
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 512/418-3000
; TELEFAX: 512/474-7577
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4348 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-915-868-1
;
Query Match 80.0%; Score 14.4; DB 2; Length 4348;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCCCGCATGACGCAAG 16
    ||| ||| ||| ||| |||
Db 2219 GCCCGCATGACGCAAG 2214

RESULT 5
US-09-103-840A-2/C
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
```


OTHER INFORMATION: "n" bases at various positions throughout the sequence
OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match

Best Local Similarity 80.0%; Score 14.4; DB 4; Length 4403765;
Best Local Similarity 93.8%; Pred. No. 56;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCCCGATGACGCAAG 16
|||||
DB 3989819 GCCCGATGACGCAAG 3989804

RESULT 6

US-07-798-776-1/c
Sequence 1, Application US/07798776
Patent No. 5434074

GENERAL INFORMATION:

APPLICANT: GIBSON, D. WADE
APPLICANT: WELCH, ANTHONY R.
TITLE OF INVENTION: HERPES VIRUS PROTEINASE AND METHOD OF
ASSAYING
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner, Birch, McKie & Beckett
STREET: 1001 G Street, N.W., Eleventh Floor
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20001-4597

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/798.776
FILING DATE: 19911127

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: FOULKE, CYNTHIA L.
REGISTRATION NUMBER: 32,364
REFERENCE/DOCKET NUMBER: 1107.07080
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 508-9100
TELEFAX: (202) 508-9299
TELEX: 197430 BBMB UT

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 2014 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Simian cytomegalovirus
STRAIN: Colburn

FEATURE:

NAME/KEY: CDS
LOCATION: 175..2001
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 175..231
FEATURE:
NAME/KEY: mat_peptide
LOCATION: 232..2001
US-07-798-776-1

Query Match 77.8%; Score 14; DB 1; Length 2014;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCGATGACGCA 14
|||||
DB 1199 GCCCGATGACGCA 1186

RESULT 7

US-08-251-288A-1/c
Sequence 1, Application US/08251288A
Patent No. 6001967

GENERAL INFORMATION:

APPLICANT: Gibson, Wade
APPLICANT: Welch, Anthony
TITLE OF INVENTION: HERPES PROTEINASE AND METHOD
OF ASSAYING
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff
STREET: 1001 G Street, NW
CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20001

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/251.288A
FILING DATE: 31-MAY-1994
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Kagan, Sarah A
REGISTRATION NUMBER: 32141
REFERENCE/DOCKET NUMBER: 01107.46284
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX:

INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 2014 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-251-288A-1

Query Match 77.8%; Score 14; DB 3; Length 2014;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCGATGACGCA 14
|||||
DB 1199 GCCCGATGACGCA 1186

RESULT 8

US-09-298-819A-1/c
Sequence 1, Application US/09298819A
Patent No. 6077679

GENERAL INFORMATION:

APPLICANT: Gibson, Wade
APPLICANT: Welch, Anthony
TITLE OF INVENTION: HERPES PROTEINASE AND METHOD
OF ASSAYING
NUMBER OF SEQUENCES: 39
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff
STREET: 1001 G Street, NW

CITY: Washington
STATE: DC
COUNTRY: USA
ZIP: 20001
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEI for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/298,819A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/251,288
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Kagan, Sarah A
REGISTRATION NUMBER: 32141
REFERENCE/DOCKET NUMBER: 01107.46284
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-508-9100
TELEFAX: 202-508-9299
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2014 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-298-819A-1

Query Match 77.8%; Score 14; DB 3; Length 2014;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCCGATGACGA 14
|||||
DB 1199 GCGCCGATGACGA 1186

RESULT 9
US-09-586-563C-1/c
Sequence 1, Application US/09586563C
Patent No. 6406902
GENERAL INFORMATION:
APPLICANT: Gibson, Wade
TITLE OF INVENTION: Herpes Proteinase and Method of Assaying
FILE REFERENCE: Gibson Herpes Proteinase Matter 00003
CURRENT APPLICATION NUMBER: US/09/586,563C
PRIOR FILING DATE: 2000-06-02
PRIOR APPLICATION NUMBER: 09/298,819
NUMBER OF SEQ ID NOS: 41
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 1
LENGTH: 2014
TYPE: DNA
ORGANISM: Simian cytomegalovirus
US-09-586-563C-1

Query Match 77.8%; Score 14; DB 4; Length 2014;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCCGATGACGA 14
|||||
DB 1199 GCGCCGATGACGA 1186

RESULT 10
US-09-586-562C-1/c

Sequence 1, Application US/09586562C
Patent No. 6410296
GENERAL INFORMATION:
APPLICANT: Gibson, Wade
TITLE OF INVENTION: Herpes Proteinase and Method of Assaying
FILE REFERENCE: Gibson Herpes Proteinase Matter 00003
CURRENT APPLICATION NUMBER: US/09/586,562C
PRIOR FILING DATE: 2000-06-02
PRIOR APPLICATION NUMBER: 09/298,819
NUMBER OF SEQ ID NOS: 41
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO: 1
LENGTH: 2014
TYPE: DNA
ORGANISM: Simian cytomegalovirus
US-09-586-562C-1

Query Match 77.8%; Score 14; DB 4; Length 2014;
Best Local Similarity 100.0%; Pred. No. 86;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCCGATGACGA 14
|||||
DB 1199 GCGCCGATGACGA 1186

RESULT 11
US-09-221-017B-985
Sequence 985, Application US/09221017B
Patent No. 6444799
GENERAL INFORMATION:
APPLICANT: Ross, Bruce C.
TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 1120
CORRESPONDENCE ADDRESSES:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSEI for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221,017B
FILING DATE: 23-DEC-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1182
FILING DATE: 31-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1546
FILING DATE: 30-JAN-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP2911
FILING DATE: 09-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCW/AU98/01023
FILING DATE: 10-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: Monroy, Gladys H
REGISTRATION NUMBER: 32,430
REFERENCE/DOCKET NUMBER: 27340-20021.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 985:

SEQUENCE CHARACTERISTICS:
LENGTH: 4934 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: UNKNOWN
ORIGINAL SOURCE:
ORGANISM: PORYPHYROMONAS GINGIVALIS
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1...4934
US-09-221-017B-985

Query Match 77.8%; Score 14; DB 4; Length 4934;
Best Local Similarity 100.0%; Pred. No. 94;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCCCGATGAGCGA 14
|||||
DB 3805 GCCCGATGAGCGA 3818

RESULT 12
US-08-851-088-5
Sequence 5, Application US/08851088
Patent No. 5952208
GENERAL INFORMATION:
APPLICANT: Darzins, Aldis
APPLICANT: Xi, Lei
APPLICANT: Childs, John D.
APPLICANT: Monticello, Daniel J.
TITLE OF INVENTION: D52 Gene Expression In Pseudomonas Hosts
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: Massachusetts
COUNTRY: USA
ZIP: 02173
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/851,088
FILING DATE: 05-MAY-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/835,185
FILING DATE: 07-APR-1997
ATTORNEY/AGENT INFORMATION:
NAME: Elmore, Carolyn S.
REGISTRATION NUMBER: 37,567
REFERENCE/DOCKET NUMBER: EBC96-06A
TELECOMMUNICATION INFORMATION:
TELEPHONE: (781) 861-6240
TELEFAX: (781) 861-9540
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1251 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 1..1095
US-08-851-088-5

Query Match 76.7%; Score 13.8; DB 2; Length 1251;
Best Local Similarity 88.2%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCCCGATGAGCGACT 17
|||||
DB 301 GCCCGATGAGCGACT 317

RESULT 13
US-09-221-017B-957
Sequence 957, Application US/09221017B
Patent No. 6444799
GENERAL INFORMATION:
APPLICANT: Ross, Bruce C.
TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FURSTER
STREET: 755 PACIFIC MILITARY ROAD
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221,017B
FILING DATE: 23-DEC-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1182
FILING DATE: 31-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1546
FILING DATE: 30-JAN-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP2911
FILING DATE: 09-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU98/01023
FILING DATE: 10-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: Montoy, Gladys H.
REGISTRATION NUMBER: 42,430
REFERENCE/DOCKET NUMBER: 27340-20021.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 957:
SEQUENCE CHARACTERISTICS:
LENGTH: 2234 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: UNKNOWN
ORIGINAL SOURCE:
ORGANISM: PORYPHYROMONAS GINGIVALIS
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1...2234
US-09-221-017B-957

Query Match 76.7%; Score 13.8; DB 4; Length 2234;
Best Local Similarity 88.2%; Pred. No. 1.1e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 : Search time 96.2091 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-15

Sequence: 1 GCCCGATGACGAGCATC 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 254661826 residues

Total number of hits satisfying chosen parameters: 84n478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications_NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PU_COMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15.4	85.6	1869	10	US-09-961-527A-8 Sequence 8, Appl1
2	15.4	85.6	8667	10	US-09-961-527A-3 Sequence 3, Appl1
3	14.8	80.2	7011	10	US-09-854-456-964 Sequence 964, App
4	14.4	82.0	1431	10	US-09-874-300-2891 Sequence 2891, Ap
5	14.4	80.0	4348	10	US-09-879-445-1 Sequence 1, Appl1
6	13.8	76.7	104	9	US-10-040-739-1310 Sequence 1310, Ap
7	13.8	76.7	681	10	US-09-864-711-9 Sequence 9, Appl1
8	13.8	76.7	714	10	US-09-872-153-10 Sequence 10, Appl1
9	13.8	76.7	1593	10	US-09-815-242-6008 Sequence 6008, Ap
10	13.8	76.7	5596	10	US-09-911-888-1 Sequence 1, Appl1
11	13.8	76.7	5596	10	US-09-911-888-3 Sequence 3, Appl1
12	13.8	76.7	10351	9	US-09-874-470-5 Sequence 5, Appl1
13	13.8	76.7	25603	10	US-09-819-607-3 Sequence 3, Appl1
14	13.8	76.7	31124	9	US-10-060-763-12 Sequence 12, Appl1
15	13.8	76.7	31124	12	US-10-063-763-12 Sequence 12, Appl1
16	13.4	74.4	225	10	US-09-733-151-7 Sequence 7, Appl1
17	13.4	74.4	462	9	US-10-046-935-28 Sequence 28, Appl1
18	13.4	74.4	462	9	US-09-878-178-28 Sequence 28, Appl1
19	13.4	74.4	834	10	US-09-974-300-2225 Sequence 2225, Ap

20	13.4	74.4	2202	9	US-09-938-842A-2296	Sequence 2296, Ap
21	13.4	74.4	4465	9	US-10-047-542-13	Sequence 13, Appl1
22	13.4	74.4	4832	10	US-09-733-151-2	Sequence 2, Appl1
23	13.4	74.4	4855	9	US-10-071-766-127	Sequence 127, App
24	13.4	74.4	4946	10	US-09-733-151-1	Sequence 1, Appl1
25	13.4	74.4	5349	10	US-09-970-921-7	Sequence 7, Appl1
26	13.4	74.4	6539	9	US-09-509-945-5	Sequence 5, Appl1
27	13.4	74.4	6548	9	US-09-509-945-4	Sequence 4, Appl1
28	13.4	74.4	6602	9	US-10-047-542-100	Sequence 100, App
29	13.4	74.4	7129	9	US-10-047-542-101	Sequence 101, App
30	13.4	74.4	8074	9	US-10-047-542-14	Sequence 14, Appl1
31	13.4	74.4	8340	10	US-09-847-057-4	Sequence 4, Appl1
32	13.4	74.4	8340	10	US-09-874-926-4	Sequence 4, Appl1
33	13.4	74.4	10078	12	US-10-033-190-3	Sequence 3, Appl1
34	13.2	73.3	193	10	US-09-833-381-2022	Sequence 2022, Ap
35	13.2	73.3	196	10	US-09-864-761-17215	Sequence 17215, A
36	13.2	73.3	271	10	US-09-923-876-5878	Sequence 5878, Ap
37	13.2	73.3	313	10	US-09-864-761-2049	Sequence 2049, Ap
38	13.2	73.3	413	10	US-09-960-352-5114	Sequence 5114, Ap
39	13.2	73.3	479	10	US-09-864-761-377	Sequence 377, App
40	13.2	73.3	518	9	US-09-824-787B-3	Sequence 3, Appl1
41	13.2	73.3	587	10	US-09-864-761-12936	Sequence 12936, A
42	13.2	73.3	800	10	US-09-974-300-59	Sequence 59, Appl1
43	13.2	73.3	954	12	US-10-043-238-2	Sequence 2, Appl1
44	13.2	73.3	1149	9	US-09-738-626-2201	Sequence 2201, Ap
45	13.2	73.3	1176	10	US-09-880-107-2127	Sequence 2127, Ap

ALIGNMENTS

RESULT 1
US-09-961-527A-8
: Sequence 8, Application US/09961527A
: Patent No. US20020142324A1
: GENERAL INFORMATION:
: APPLICANT: Turgeon, B. Gillian
: APPLICANT: Wang, Xun
: APPLICANT: Yoder, Olen
: TITLE OF INVENTION: Fungal target genes and methods to identify those genes
: FILE REFERENCE: TM0129-0T
: CURRENT APPLICATION NUMBER: US/09/961,527A
: CURRENT FILING DATE: 2001-09-24
: PRIOR APPLICATION NUMBER: US 60/234,673
: PRIOR FILING DATE: 2000-09-22
: PRIOR APPLICATION NUMBER: US 60/244,650
: PRIOR FILING DATE: 2000-09-22
: NUMBER OF SEQ ID NOS: 19
: SEQ ID NO 8
: LENGTH: 1869
: TYPE: DNA
: ORGANISM: *Cochliobolus*
US-09-961-527A-8
Query Match 85.6%; Score 15.4; DB 10; Length 1869;
Best Local Similarity 94.1%; Pred. No. 19;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 GCCCGATGACGAGCAT 17
Db 1567 GCCCGATGACGAGCAT 1563
RESULT 2
US-09-961-527A-3
: Sequence 3, Application US/09961527A
: Patent No. US20020142324A1
: GENERAL INFORMATION:
: APPLICANT: Turgeon, B. Gillian
: APPLICANT: Wang, Xun
: APPLICANT: Yoder, Olen
: APPLICANT: Wu, Jiansuo

TITLE OF INVENTION: Fungal target genes and methods to identify those genes
FILE REFERENCE: TM0129-UT
CURRENT APPLICATION NUMBER: US/09/961,527A
CURRENT FILING DATE: 2001-09-24
PRIOR APPLICATION NUMBER: US 60/234,673
PRIOR FILING DATE: 2000-09-22
PRIOR APPLICATION NUMBER: US 60/234,650
PRIOR FILING DATE: 2000-09-22
NUMBER OF SEQ ID NOS: 19
SEQ ID NO 3
LENGTH: 8667
TYPE: DNA
ORGANISM: Cochliobolus
FEATURE:
NAME/KEY: misc.feature
LOCATION: (1)-(8667)
OTHER INFORMATION: n - A,T,C or G
US-09-961-527A-3

Query Match 85.6%; Score 15.4; DB 10; Length 8667;
Best Local Similarity 94.1%; Pred. No. 20;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCCCGATGACGAGT 17
|||||
DB 2971 GCCCGATGACGAGT 2987

RESULT 3
US-09-954-456-964/C
Sequence 964, Application US/09954456
Patent No. US20020115057A1
GENERAL INFORMATION:
APPLICANT: Young, Paul
TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cand
FILE REFERENCE: 689290-76
CURRENT APPLICATION NUMBER: US/09/954,456
CURRENT FILING DATE: 2001-09-18
PRIOR APPLICATION NUMBER: US/60/233,617
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US/60/234,052
PRIOR FILING DATE: 2000-09-20
PRIOR APPLICATION NUMBER: US/60/234,923
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,134
PRIOR FILING DATE: 2000-09-25
PRIOR APPLICATION NUMBER: US/60/235,637
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,638
PRIOR FILING DATE: 2000-09-26
PRIOR APPLICATION NUMBER: US/60/235,711
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,720
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,840
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: US/60/235,863
PRIOR FILING DATE: 2000-09-27
NUMBER OF SEQ ID NOS: 2276
SOFTWARE: PatentIn version 3.0
SEQ ID NO 964
LENGTH: 7011
TYPE: DNA
ORGANISM: Homo sapiens
US-09-954-456-964

Query Match 82.2%; Score 14.8; DB 10; Length 7011;
Best Local Similarity 88.9%; Pred. No. 42;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 1 GCCCGATGACGAGT 18
|||||

DB 2735 GCCCGATGACGAGT 2718

RESULT 4
US-09-974-300-2891
Sequence 2891, Application US/09974300
Patent No. US20020146721A1
GENERAL INFORMATION:
APPLICANT: Berka, Randy M.
APPLICANT: Clausen, Ib Groth
TITLE OF INVENTION: Methods For Monitoring Multiple Gene
FILE REFERENCE: 10085-300-US
CURRENT APPLICATION NUMBER: US/09/974,300
CURRENT FILING DATE: 2001-10-05
PRIOR APPLICATION NUMBER: 09/680,598
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 60/279,526
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 8481
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 2891
LENGTH: 1431
TYPE: DNA
ORGANISM: Bacillus licheniformis
US-09-974-300-2891

Query Match 80.0%; Score 14.4; DB 10; Length 1431;
Best Local Similarity 93.8%; Pred. No. 65;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCCCGATGACGAG 16
|||||
DB 412 GCCCGATGACGAG 427

RESULT 5
US-09-879-445-1
Sequence 1, Application US/09879445
Patent No. US20020061509A1
GENERAL INFORMATION:
APPLICANT: Mundy, Gregory R.
Gallwitz, Wolf
TITLE OF INVENTION: SCREENING ASSAY FOR THE IDENTIFICATION
OF AGENTS WHICH INHIBIT CANCER
METASTASIS TO BONE
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESS: Arnold, White & Burke
STREET: P.O. Box 4433
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77210
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/879,445
FILING DATE: 11-Jun-2001
CLASSIFICATION: <unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/915,868
FILING DATE: <unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Highlander, Steven L.
REGISTRATION NUMBER: 37,642
REFERENCE/DOCKET NUMBER: OSTs:002Pz1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577

```

: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 4348 base pairs
:   TYPE: nucleic acid
:   STRANDEDNESS: single
:   TOPOLOGY: linear
: SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-879-445-1

Query Match      80.0%; Score 14.4; DB 10; Length 4348;
Best Local Similarity 93.8%; Pred. No. 68;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCCCGGATGACGAGAG 16
    |||
DB 2219 GCCCGGATGACGAGG 2234

RESULT 6
US-10-040-739-1310/C
: Sequence 1310, Application US/10040739
: Patent No. US20020173635A1
: GENERAL INFORMATION:
:   APPLICANT: Jacobs, Kenneth
:   McCoy, John
:   Lavalie, Edward
:   Racie, Lisa
:   Merderg, David
:   Treacy, Maurice
:   Spaulding, Vikki
: TITLE OF INVENTION: SECRETED, EXPRESSED SEQUENCE TAGS
: NUMBER OF SEQUENCES: 1519
: CORRESPONDENCE ADDRESS:
:   ADDRESSEE: Genetics Institute, Inc.
:   STREET: 87 Cambridgepark Drive
:   CITY: Cambridge
:   STATE: Massachusetts
:   COUNTRY: U.S.A
:   ZIP: 02140
: COMPUTER READABLE FORM:
:   MEDIUM TYPE: Floppy Disk
:   COMPUTER: IBM PC Compatible
:   OPERATING SYSTEM: PC-DOS/MS-DOS
:   SOFTWARE: Patentn Release #1.0, Version #1.30
: CURRENT APPLICATION DATA:
:   APPLICATION NUMBER: US/10/040.739
:   FILING DATE: 07-Jan-2002
:   CLASSIFICATION: <Unknown>
:   PRIOR APPLICATION DATA:
:     APPLICATION NUMBER: 09/036,520
:     FILING DATE: 03-JUN-1998
:   ATTORNEY/AGENT INFORMATION:
:     NAME: Brown, Scott A.
:     REGISTRATION NUMBER: 32,724
:   TELECOMMUNICATION INFORMATION:
:     TELEPHONE: (617) 498-8224
:     TELEFAX: (617) 876-5851
: INFORMATION FOR SEQ ID NO: 1310:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 104 base pairs
:   TYPE: nucleic acid
:   STRANDEDNESS: double
:   TOPOLOGY: linear
:   MOLECULE TYPE: cDNA
: SEQUENCE DESCRIPTION: SEQ ID NO: 1310:
US-10-040-739-1310

Query Match      76.7%; Score 13.8; DB 9; Length 104;
Best Local Similarity 88.2%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCCCGGATGACGAGAGT 17
    |||
DB 11111111111111111111
```

```

DB 50 GCCCGATGACGAGAGT 34

RESULT 7
US-09-864-711-9
: Sequence 9, Application US/09864711
: Patent No. US20020077309A1
: GENERAL INFORMATION:
:   APPLICANT: Walker, Michael G.
:   APPLICANT: Volkmuth, Wayne
:   APPLICANT: Klingler, Tod M.
: TITLE OF INVENTION: DIAGNOSTICS AND THERAPEUTICS FOR PANCREATIC DISORDERS
: FILE REFERENCE: PB-0008-1 CIP
: CURRENT APPLICATION NUMBER: US/09/864,711
: CURRENT FILING DATE: 2001-05-23
: NUMBER OF SEQ ID NOS: 15
: SOFTWARE: PERL Program
: SEQ ID NO 9
:   LENGTH: 681
:   TYPE: DNA
:   ORGANISM: Homo sapiens
: FEATURE:
:   OTHER INFORMATION: 2777115
US-09-864-711-9

Query Match      76.7%; Score 13.8; DB 10; Length 681;
Best Local Similarity 88.2%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCCCGGATGACGAGAGT 17
    |||
DB 215 GCCCGGAGAGGAGCAAGT 231

RESULT 8
US-09-872-153-10
: Sequence 10, Application US/09872153
: Patent No. US20020082207A1
: GENERAL INFORMATION:
:   APPLICANT: Hirst, Shannon K.
:   APPLICANT: Harlocker, Susi L.
:   APPLICANT: Dillon, David C.
:   APPLICANT: Kalos, Michael D.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: FILE REFERENCE: 210121.531
: CURRENT APPLICATION NUMBER: US/09/872,153
: CURRENT FILING DATE: 2001-05-31
: NUMBER OF SEQ ID NOS: 28
: SOFTWARE: Paslshq for Windows Version 4.0
: SEQ ID NO 10
:   LENGTH: 714
:   TYPE: DNA
:   ORGANISM: Homo sapien
: FEATURE:
:   NAME/KEY: misc_feature
:   LOCATION: (1)...(714)
:   OTHER INFORMATION: n = A,T,C or G
US-09-872-153-10

Query Match      76.7%; Score 13.8; DB 10; Length 714;
Best Local Similarity 88.2%; Pred. No. 1.3e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCCCGGATGACGAGAGT 17
    |||
DB 94 GCCCGGAGAGGAGCAAGT 110

RESULT 9
US-09-815-242-6008
: Sequence 6008, Application US/09815242
: Patent No. US20020061569A1
```

```

: GENERAL INFORMATION:
: APPLICANT: Haselbeck, Robert
: APPLICANT: Ohlsen, Kari L.
: APPLICANT: Zyskind, Judith W.
: APPLICANT: Wall, Daniel
: APPLICANT: Trawick, John D.
: APPLICANT: Carr, Grant J.
: APPLICANT: Yamamoto, Robert T.
: APPLICANT: Xu, H. Howard
: TITLE OF INVENTION: Identification of Essential Genes in
: FILE REFERENCE: ELITRA.011A
: CURRENT APPLICATION NUMBER: US/09/815,242
: CURRENT FILING DATE: 2001-03-21, 078
: PRIOR APPLICATION NUMBER: 60/191,078
: PRIOR FILING DATE: 2000-03-21
: PRIOR APPLICATION NUMBER: 60/206,848
: PRIOR FILING DATE: 2000-05-23
: PRIOR APPLICATION NUMBER: 60/207,727
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: 60/242,578
: PRIOR FILING DATE: 2000-10-23
: PRIOR APPLICATION NUMBER: 60/253,625
: PRIOR FILING DATE: 2000-11-27
: PRIOR APPLICATION NUMBER: 60/257,931
: PRIOR FILING DATE: 2000-12-22
: PRIOR APPLICATION NUMBER: 60/269,308
: PRIOR FILING DATE: 2001-02-16
: NUMBER OF SEQ ID NOS: 14110
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 6008
: LENGTH: 1593
: TYPE: DNA
: ORGANISM: Escherichia coli
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)...(1593)
US-09-815-242-6008

Query Match          76.7%: Score 13.8: DB 10: Length 1593;
Best Local Similarity 88.2%: Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GCGCCGATGAGCGAGT 17
        | | | | | | | | | |
Db      451 GCGCCGATGAGCGAGT 467

RESULT 10
US-09-911-888-1
: Sequence 1, Application US/09911888
: Patent No. US20020119509A1
: GENERAL INFORMATION:
: APPLICANT: Koltin, Yigal
: APPLICANT: Gavrias, Victoria
: TITLE OF INVENTION: ESSENTIAL FUNGAL GENES AND THEIR USE
: FILE REFERENCE: 06286-062002
: CURRENT APPLICATION NUMBER: US/09/911,888
: CURRENT FILING DATE: 2001-07-23
: PRIOR APPLICATION NUMBER: US 08/965,762
: PRIOR FILING DATE: 1997-11-07
: NUMBER OF SEQ ID NOS: 35
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 1
: LENGTH: 5596
: TYPE: DNA
: ORGANISM: Aspergillus nidulans
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (604)...(2655)
: NAME/KEY: CDS
: LOCATION: (2706)...(3992)
US-09-911-888-1
```

```

Query Match          76.7%: Score 13.8: DB 10: Length 5596;
Best Local Similarity 88.2%: Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GCGCCGATGAGCGAGT 17
        | | | | | | | | | |
Db      3297 GCGCTGATGAGCGAGT 3313

RESULT 11
US-09-911-888-3/c
: Sequence 3, Application US/09911888
: Patent No. US20020119509A1
: GENERAL INFORMATION:
: APPLICANT: Koltin, Yigal
: APPLICANT: Gavrias, Victor I
: TITLE OF INVENTION: ESSENTIAL FUNGAL GENES AND THEIR USE
: FILE REFERENCE: 06286-062002
: CURRENT APPLICATION NUMBER: US/09/911,888
: CURRENT FILING DATE: 2001-07-23
: PRIOR APPLICATION NUMBER: US 08/965,762
: PRIOR FILING DATE: 1997-11-07
: NUMBER OF SEQ ID NOS: 35
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 3
: LENGTH: 5596
: TYPE: DNA
: ORGANISM: Aspergillus nidulans
US-09-911-888-3

Query Match          76.7%: Score 13.8: DB 10: Length 5596;
Best Local Similarity 88.2%: Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      1 GCGCCGATGAGCGAGT 17
        | | | | | | | | | |
Db      2300 GCGCTGATGAGCGAGT 2284

RESULT 12
US-09-874-470-5/c
: Sequence 5, Application US/09874470
: Patent No. US20020071842A1
: GENERAL INFORMATION:
: APPLICANT: Gumpertz, Jenny F.
: APPLICANT: Brenner, Michael H
: APPLICANT: Behar, Samuel M
: TITLE OF INVENTION: Soluble viral compositions and uses thereof
: FILE REFERENCE: B00801/7021-
: CURRENT APPLICATION NUMBER: US/09/874,470
: CURRENT FILING DATE: 2001-06-05
: PRIOR APPLICATION NUMBER: US 60/209,416
: PRIOR FILING DATE: 2000-06-05
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: Patent version 3.0
: SEQ ID NO 5
: LENGTH: 10351
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-874-470-5

Query Match          76.7%: Score 13.8: DB 10: Length 10351;
Best Local Similarity 88.2%: Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy      2 CCGCGATGAGCGAGTC 18
        | | | | | | | | | |
Db      555 CCGCGATGAGCGAGCC 539

RESULT 13
US-09-819-607-3/c
```


GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 24.7596 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-16

Perfect score: 1 GGGGGCGCTCTGTGTC 17

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 1533381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/prodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/prodata/2/ina/5A.COMB.seq:*
3: /cgn2_6/prodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/prodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/prodata/2/ina/PCFUS.COMB.seq:*
6: /cgn2_6/prodata/2/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	17	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appl
2	15.4	90.6	1477	4 US-09-484-970B-99	Sequence 99, Appl
3	14.4	84.7	221	4 US-09-503-172A-9	Sequence 9, Appl
4	14.4	84.7	1252	4 US-09-561-756-29	Sequence 29, Appl
5	14.4	84.7	1252	4 US-09-227-721-29	Sequence 29, Appl
6	14.4	84.7	1917	4 US-09-503-172A-1	Sequence 1, Appl
7	14.4	84.7	3870	1 US-08-138-641-1	Sequence 1, Appl
8	14.4	84.7	3870	1 US-08-138-133-1	Sequence 1, Appl
9	14.4	84.7	3893	1 US-08-138-641-3	Sequence 3, Appl
10	14.4	84.7	3893	1 US-08-138-133-3	Sequence 3, Appl
11	14.4	84.7	4342	1 US-08-436-044-1	Sequence 1, Appl
12	14.4	84.7	4342	2 US-08-436-054-1	Sequence 1, Appl
13	14.4	84.7	4342	5 PCT-US95-08812-1	Sequence 1, Appl
14	14.4	84.7	4698	1 US-07-807-043B-5	Sequence 5, Appl
15	14.4	84.7	4698	1 US-08-299-849B-5	Sequence 5, Appl
16	14.4	84.7	4698	2 US-08-142-368A-5	Sequence 5, Appl
17	14.4	84.7	4698	3 US-08-967-727-5	Sequence 5, Appl
18	14.4	84.7	4698	4 US-08-037-230D-5	Sequence 5, Appl
19	14.4	84.7	80161	3 US-09-036-987A-1	Sequence 1, Appl
20	14.4	84.7	80161	4 US-09-370-700-1	Sequence 1, Appl
21	14.4	82.4	3694	4 US-09-232-200-46	Sequence 46, Appl
22	14.4	82.4	3694	4 US-09-232-197-46	Sequence 46, Appl
23	14.4	82.4	3694	4 US-09-232-201-46	Sequence 46, Appl
24	14.4	82.4	3704	4 US-09-232-200-24	Sequence 24, Appl
25	14.4	82.4	3704	4 US-09-232-197-24	Sequence 24, Appl
26	14.4	82.4	3704	4 US-09-232-201-24	Sequence 24, Appl
27	14.4	82.4	4344	4 US-09-462-561B-11	Sequence 11, Appl

28	14	82.4	6743	3 US-08-932-280-1	Sequence 1, Appl
29	13.8	81.2	20	4 US-09-503-172A-7	Sequence 7, Appl
30	13.8	81.2	246	4 US-09-280-116-152	Sequence 152, Appl
31	13.8	81.2	247	3 US-09-109-205-13	Sequence 13, Appl
32	13.8	81.2	268	1 US-08-105-168B-1	Sequence 1, Appl
33	13.8	81.2	268	1 US-08-105-168B-2	Sequence 2, Appl
34	13.8	81.2	268	1 US-08-105-168B-3	Sequence 3, Appl
35	13.8	81.2	268	2 US-08-698-948-1	Sequence 1, Appl
36	13.8	81.2	268	2 US-08-698-948-2	Sequence 2, Appl
37	13.8	81.2	268	2 US-08-698-948-3	Sequence 3, Appl
38	13.8	81.2	314	1 US-08-105-168B-23	Sequence 23, Appl
39	13.8	81.2	314	2 US-08-698-948-23	Sequence 23, Appl
40	13.8	81.2	342	2 US-08-473-020A-31	Sequence 31, Appl
41	13.8	81.2	343	2 US-08-473-020A-4	Sequence 4, Appl
42	13.8	81.2	345	4 US-09-127-946-5	Sequence 5, Appl
43	13.8	81.2	350	1 US-08-105-168B-22	Sequence 22, Appl
44	13.8	81.2	350	2 US-08-698-948-22	Sequence 22, Appl
45	13.8	81.2	588	4 US-09-199-637A-18	Sequence 18, Appl

ALIGNMENTS

```

RESULT 1
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-07-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
US-09-103-840A-2

Query Match          100.0%; Score 17; DB 4; Length 4403765;
Best Local Similarity 100.0%; Pred. No. 8.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 GGGGGCGCTCTGTGTC 17
Db 3082208 GGGGGCGCTCTGTGTC 3082224

RESULT 2
US-09-484-970B-99
; Sequence 99, Application US/09484970B
; Patent No. 6426186
; GENERAL INFORMATION:
; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 99

```

```
LENGTH: 1477
TYPE: LNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No. 6426186 337314.ICB1
NAME/KEY: unsure
LOCATION: 46, 661
OTHER INFORMATION: a, t, c, g, or other
US-09-484-970B-99
```

```
Query Match          90.6%; Score 15.4; DB 4; Length 1477;
Best Local Similarity 94.1%; Pred. No. 87;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 GGGCGCTCTGCTGCC 17
        |||||
Db      618 GGGCGCTCTGAGCC 634
```

```
RESULT 3
US-09-503-172A-9/c
Sequence 9, Application US/09503172A
Patent No. 6284510
GENERAL INFORMATION:
APPLICANT: ITO, Tetsuya
APPLICANT: FUJITA, Koki
APPLICANT: HARA, Kozo
APPLICANT: TONOUKA, Takashi
APPLICANT: SAKANO, Yoshiyuki
TITLE OF INVENTION: BETA-PRCTOFURANOSIDASE GENE
FILE REFERENCE: 10749-0001-0
CURRENT APPLICATION NUMBER: US/09/503,172A
CURRENT FILING DATE: 2000-02-14
PRIOR APPLICATION NUMBER: JP 160416/1999
PRIOR FILING DATE: 1999-06-08
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 9
LENGTH: 221
TYPE: DNA
ORGANISM: Arthrobacter sp.
US-09-503-172A-9
```

```
Query Match          84.7%; Score 14.4; DB 4; Length 221;
Best Local Similarity 93.8%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 GGGCGCTCTGCTGCC 17
        |||||
Db      17 GGGCGCTCTGAGCC 2
```

```
RESULT 4
US-09-561-756-29
Sequence 29, Application US/09561756
Patent No. 6376226
GENERAL INFORMATION:
APPLICANT: Alnemri, Emdad S.
TITLE OF INVENTION: RECOMBINANT, ACTIVE CASPASES AND USES
FILE REFERENCE: 480140.431
CURRENT APPLICATION NUMBER: US/09/561,756
CURRENT FILING DATE: 2000-04-26
PRIOR APPLICATION NUMBER: 09/227,721
PRIOR FILING DATE: 1999-01-08
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 29
LENGTH: 1252
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
```

```
NAME/KEY: misc_feature
LOCATION: (1)..(1252)
OTHER INFORMATION: n = A,T,C or G
US-09-561-756-29
```

```
Query Match          84.7%; Score 14.4; DB 4; Length 1252;
Best Local Similarity 93.8%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 GGGCGCTCTGCTGCC 17
        |||||
Db      659 GGGCGCTCTGCTGCC 674
```

```
RESULT 5
US-09-227-721-29
Sequence 29, Application US/09227721
Patent No. 6379950
GENERAL INFORMATION:
APPLICANT: Alnemri, Emdad S.
TITLE OF INVENTION: RECOMBINANT, ACTIVE CASPASES AND USES
FILE REFERENCE: 480140.431
CURRENT APPLICATION NUMBER: US/09/227,721
CURRENT FILING DATE: 1999-01-08
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 29
LENGTH: 1252
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1252)
OTHER INFORMATION: n = A,T,C or G
US-09-227-721-29
```

```
Query Match          84.7%; Score 14.4; DB 4; Length 1252;
Best Local Similarity 93.8%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 GGGCGCTCTGCTGCC 17
        |||||
Db      659 GGGCGCTCTGCTGCC 674
```

```
RESULT 6
US-09-503-172A-1/c
Sequence 1, Application US/09503172A
Patent No. 6284510
GENERAL INFORMATION:
APPLICANT: ITO, Tetsuya
APPLICANT: FUJITA, Koki
APPLICANT: HARA, Kozo
APPLICANT: TONOUKA, Takashi
APPLICANT: SAKANO, Yoshiyuki
TITLE OF INVENTION: BETA-PRCTOFURANOSIDASE GENE
FILE REFERENCE: 10749-0001-0
CURRENT APPLICATION NUMBER: US/09/503,172A
CURRENT FILING DATE: 2000-02-14
PRIOR APPLICATION NUMBER: JP 160416/1999
PRIOR FILING DATE: 1999-06-08
NUMBER OF SEQ ID NOS: 9
SOFTWARE: Patentln Ver. 2.1
SEQ ID NO 1
LENGTH: 1917
TYPE: DNA
ORGANISM: Arthrobacter sp.
FEATURE:
NAME/KEY: CDS
LOCATION: (181)..(1917)
NAME/KEY: mat_peptide
LOCATION: (289)..(1917)
```

US-09-503-172A-1

Query Match 84.7%; Score 14.4; DB 4; Length 1917;
Best Local Similarity 93.8%; Pred. No. 2.4e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 GGGCGCTCTGCTGC 17
|||||
DB 311 GGGCGCTCTGAGCC 296

RESULT 7

US-08-138-641-1
; Sequence 1, Application US/08138641
; Patent No. 5474921

GENERAL INFORMATION:
; APPLICANT: Kobljan, Kenneth S.
; APPLICANT: Pompliano, David L.
; TITLE OF INVENTION: ASSAY TO DETERMINE INHIBITORS OF
; TITLE OF INVENTION: PHOSPHOINOSITIDE-SPECIFIC PHOSPHOLIPASE C-GAMMA
; NUMBER OF SEQUENCES: 9
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David A. Muthard
; STREET: P. O. Box 2000, 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA

ZIP: 07065
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/138,641

FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Muthard, David A.
; REGISTRATION NUMBER: 35,297
; REFERENCE/DOCKET NUMBER: 18937
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-3903
; TELEFAX: (908) 594-4720
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3870 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-08-138-641-1

Query Match 84.7%; Score 14.4; DB 1; Length 3870;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCGCTCTGCTGC 16
|||||
DB 2065 GGGCGCTCTGCTGC 2080

RESULT 8

US-08-138-133-1
; Sequence 1, Application US/0818133
; Patent No. 5519163

GENERAL INFORMATION:
; APPLICANT: GIBBS, JACKSON B.
; APPLICANT: KOBLAN, KENNETH S.
; APPLICANT: MACLEOD, ANGUS M.
; APPLICANT: MERCHANT, KEVIN J.
; TITLE OF INVENTION: INHIBITORS OF PHOSPHOINOSITIDE-SPECIFIC
; TITLE OF INVENTION: PHOSPHOLIPASE C

NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: DAVID A. MUTHARD
STREET: P. O. BOX 2000, 126 E. LINCOLN AVENUE
CITY: RAHWAY

STATE: NEW JERSEY
COUNTRY: U.S.A.
ZIP: 07065

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/138,133
FILING DATE:

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:
NAME: MUTHARD, DAVID A.

REGISTRATION NUMBER: 35,297
REFERENCE/DOCKET NUMBER: 18938

TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-4720

TELEFAX: (908) 594-3903
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 3870 base pairs

TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: CDNA

US-08-138-133-1

Query Match 84.7%; Score 14.4; DB 1; Length 3870;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCGCTCTGCTGC 16
|||||
DB 2065 GGGCGCTCTGCTGC 2080

RESULT 9

US-08-138-641-3
; Sequence 3, Application US/08138641
; Patent No. 5474921

GENERAL INFORMATION:

APPLICANT: Kobljan, Kenneth S.
APPLICANT: Pompliano, David L.

TITLE OF INVENTION: ASSAY TO DETERMINE INHIBITORS OF
TITLE OF INVENTION: PHOSPHOINOSITIDE-SPECIFIC PHOSPHOLIPASE C-GAMMA
NUMBER OF SEQUENCES: 9

CORRESPONDENCE ADDRESS:

ADDRESSEE: David A. Muthard
STREET: P. O. Box 2000, 126 E. Lincoln Avenue
CITY: Rahway

STATE: New Jersey
COUNTRY: USA
ZIP: 07065

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/138,641
FILING DATE:

CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:
NAME: Muthard, David A.

REGISTRATION NUMBER: 35,297
REFERENCE/DOCKET NUMBER: 18937

TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-4720

TELEFAX: (908) 594-3903
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 3870 base pairs

TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: CDNA

US-08-138-133-1

TELEPHONE: (908) 594-3903
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 3893 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-138-641-3

Query Match 84.7%; Score 14.4; DB 1; Length 3893;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCGCGCTCTGCTGC 16
||||| |||||||
DB 2065 GGGCGCTCTCTGCTGC 2080

RESULT 10

US-08-138-133-3
Sequence 3, Application US/08138133
Patent No. 5519163

GENERAL INFORMATION:
APPLICANT: GIBBS, JACKSON B.
APPLICANT: KOBLAN, KENNETH S.
APPLICANT: MACLEOD, ANGUS M.
APPLICANT: MERCHANT, KEVIN J.
TITLE OF INVENTION: INHIBITORS OF PHOSPHOINOSITIDE-SPECIFIC
NUMBER OF INVENTIONS: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAVID A. MUTHARD
STREET: P. O. BOX 2000, 126 E. LINCOLN AVENUE
CITY: RAHWAY
STATE: NEW JERSEY
COUNTRY: U.S.A.
ZIP: 07065
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/138.133
FILING DATE:
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: MUTHARD, DAVID A.
REGISTRATION NUMBER: 35,297
REFERENCE/DOCKET NUMBER: 18938
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-3903
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 3893 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-138-133-3

Query Match 84.7%; Score 14.4; DB 1; Length 3893;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCGCGCTCTGCTGC 16
||||| |||||||
DB 2065 GGGCGCTCTCTGCTGC 2080

RESULT 11

US-08-436-044-1/C
Sequence 1, Application US/08436044
Patent No. 5624899

GENERAL INFORMATION:
APPLICANT: Bennett, Brian D.
APPLICANT: Matthews, William
TITLE OF INVENTION: HTK LIGAND
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436.044
FILING DATE: 05-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/277722
FILING DATE: 20-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 90203
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4342 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-436-044-1

Query Match 84.7%; Score 14.4; DB 1; Length 4342;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGCGCGCTCTGCTGC 16
||||| |||||||
DB 1503 GGGCGCGCTCTGCTGC 1488

RESULT 12

US-08-436-054-1/C
Sequence 1, Application US/08436054
Patent No. 5864020

GENERAL INFORMATION:
APPLICANT: Bennett, Brian D.
APPLICANT: Matthews, William
TITLE OF INVENTION: HTK LIGAND
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080

COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS

```
SOFTWARE: palin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436.054
FILING DATE: 05-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/277722
FILING DATE: 20-JUL-1994
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 90201
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4342 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-436-054-1
```

```
Query Match      84.7%: Score 14.4; DB 2: Length 4342;
Best Local Similarity 93.8%: Pred. No. 2.2e+02;
Matches 15: Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGGCGCTGCTGCTGC 16
        ||||| |||||
DB      1503 GGGCGCGCTGCTGC 1488
```

```
RESULT 13
PCT-US95-08812-1/c
Sequence 1, Application PC/TUS9508812
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
TITLE OF INVENTION: HTK LIGAND
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: palin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/08812
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
ATTORNEY/AGENT INFORMATION:
NAME: Lee, Wendy M.
REGISTRATION NUMBER: 00,000
REFERENCE/DOCKET NUMBER: 902PCT
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-1994
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4342 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
```

PCT-US95-08812-1

```
Query Match      84.7%: Score 14.4; DB 5: Length 4342;
Best Local Similarity 93.8%: Pred. No. 2.2e+02;
Matches 15: Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGGCGCTGCTGCTGC 16
        ||||| |||||
DB      1503 GGGCGCGCTGCTGC 1488
```

```
RESULT 14
US-07-807-043B-5/c
Sequence 5, Application US/07807043B
Patent No. 5342774
GENERAL INFORMATION:
APPLICANT: Boon, Thierry, Van den Eynde, Beno t
TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Feltz & Lynch
STREET: 805 Third Avenue
CITY: New York City
STATE: New York
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
COMPUTER: IBM
OPERATING SYSTEM: PC-DOS
SOFTWARE: Wordperfect
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/807,043B
FILING DATE: 19911212
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/764,364
FILING DATE: 23-SEPTEMBER-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/728,838
FILING DATE: 9-JULY-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/705,702
FILING DATE: 23-MAY-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hanson, No. 5342774man D.
REGISTRATION NUMBER: 30,946
REFERENCE/DOCKET NUMBER: 1101, 253, 4
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 688-9200
TELEFAX: (212) 838-3884
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 4698 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: singular
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
US-07-807-043B-5
```

```
Query Match      84.7%: Score 14.4; DB 1: Length 4698;
Best Local Similarity 93.8%: Pred. No. 2.2e+02;
Matches 15: Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGGCGCTGCTGCTGC 16
        ||||| |||||
DB      1709 GGGCGAGTCTGCTGC 1694
```

```
RESULT 15
US-08-299-849B-5/c
Sequence 5, Application US/08299849B
Patent No. 5612201
```

```

: GENERAL INFORMATION:
: APPLICANT: De Plaen, Etienne; Boon-Falleur, Thierry;
: APPLICANT: Leth, Bernard; Szikora, Jean-Pierre; De Smet, Charles;
: APPLICANT: Chomez, Patrick
: TITLE OF INVENTION: Isolated Nucleic Acid Molecules Useful In
: TITLE OF INVENTION: Determining Expression Of A Tumor Antigen Precursor
: NUMBER OF SEQUENCES: 48
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Felfe & Lynch
: STREET: 805 Third Avenue
: CITY: New York City
: STATE: New York
: ZIP: 10022
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
: COMPUTER: IBM
: OPERATING SYSTEM: PC-DOS
: SOFTWARE: Wordperfect
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/299, 849B
: FILING DATE: 1-SEPTEMBER-1994
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 08/037,230
: FILING DATE: 26-MARCH-1993
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: PCT/US92/04354
: FILING DATE: 22-MAY-1992
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/807,043
: FILING DATE: 12-DECEMBER-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/764,364
: FILING DATE: 23-SEPTEMBER-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/728,838
: APPLICATION NUMBER: 9-JULY-1991
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 07/705,702
: FILING DATE: 23-MAY-1991
: ATTORNEY/AGENT INFORMATION:
: NAME: Hanson, No. 5612201man D.
: REGISTRATION NUMBER: 30,946
: REFERENCE/DOCKET NUMBER: LUD 5355
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (212) 688-9200
: TELEFAX: (212) 838-3884
: INFORMATION FOR SEQ ID NO: 5:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 4698 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: MOLECULE TYPE: genomic DNA
: US-08-299-849B-5

Query Match      84.7%; Score 14.4; DB 1; Length 4698;
Best Local Similarity 93.8%; Pred. No. 2.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 GGGGCGTCTGTGTC 16
Db      1709 GGGGCGTCTGTGTC 1694
```

Search completed: February 17, 2003, 23:22:24
Job time : 1043.76 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 90.8641 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-16

Perfect score: 17
Sequence: 1 GGGGGCCTCTGCTGCC 17

Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 25461826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PC1_NEM_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEM_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEM_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PC105_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEM_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09_NEM_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US10_NEM_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEM_PUB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	15.4	90.6	8439	10	US-09-764-877-3959 Sequence 3959, Ap
C 2	15.4	90.6	9875	10	US-09-764-877-3960 Sequence 3960, Ap
C 3	15.4	90.6	18385	10	US-09-764-860-1018 Sequence 1018, Ap
C 4	15	88.2	1229	10	US-09-822-830A-147 Sequence 147, Ap
C 5	15	88.2	1257	9	US-10-042-141-27 Sequence 27, Appl
C 6	15	88.2	1257	9	US-09-726-643-27 Sequence 27, Appl
C 7	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 8	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 9	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 10	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 11	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 12	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 13	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 14	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 15	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 16	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 17	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 18	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl
C 19	15	88.2	1257	10	US-09-910-150-12 Sequence 12, Appl

C 20	14	82.4	8340	10	US-09-847-057-4 Sequence 4, Appl
C 21	14	82.4	8340	10	US-09-874-926-4 Sequence 4, Appl
C 22	14	82.4	11522	9	US-10-052-092-19 Sequence 19, Appl
C 23	13.8	81.2	60	9	US-10-057-136-2 Sequence 2, Appl
C 24	13.8	81.2	269	10	US-09-960-352-1216 Sequence 1216, Ap
C 25	13.8	81.2	280	10	US-09-294-093B-2752 Sequence 2752, Ap
C 26	13.8	81.2	337	10	US-09-962-832-68 Sequence 68, Appl
C 27	13.8	81.2	337	10	US-09-880-107-133 Sequence 133, Appl
C 28	13.8	81.2	373	10	US-09-925-299-258 Sequence 258, Appl
C 29	13.8	81.2	377	10	US-09-833-381-1534 Sequence 1534, Ap
C 30	13.8	81.2	381	10	US-09-216-393-44 Sequence 44, Appl
C 31	13.8	81.2	429	9	US-09-854-133-414 Sequence 414, Appl
C 32	13.8	81.2	429	10	US-09-738-973-414 Sequence 414, Appl
C 33	13.8	81.2	432	10	US-09-216-393-46 Sequence 46, Appl
C 34	13.8	81.2	443	10	US-09-960-352-14265 Sequence 14265, A
C 35	13.8	81.2	455	10	US-09-864-761-10979 Sequence 10979, A
C 36	13.8	81.2	461	10	US-09-867-701-4468 Sequence 4468, Ap
C 37	13.8	81.2	464	10	US-09-983-965-3422 Sequence 3422, Ap
C 38	13.8	81.2	466	10	US-09-216-393-50 Sequence 50, Appl
C 39	13.8	81.2	476	9	US-09-822-846-505 Sequence 505, Appl
C 40	13.8	81.2	539	10	US-09-216-393-52 Sequence 52, Appl
C 41	13.8	81.2	558	9	US-09-975-719-18 Sequence 18, Appl
C 42	13.8	81.2	595	9	US-10-028-072-413 Sequence 413, Appl
C 43	13.8	81.2	595	9	US-10-121-049-413 Sequence 413, Appl
C 44	13.8	81.2	595	9	US-10-123-904-413 Sequence 413, Appl
C 45	13.8	81.2	595	9	US-10-140-470-413 Sequence 413, Appl

ALIGNMENTS

RESULT 1
US-09-764-877-3959/C
Sequence 3959, Application US/09764877
Patent No. US20020147140A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC005
CURRENT APPLICATION NUMBER: US/09/764,877
CURRENT FILING DATE: 2001-01-17
Prior application data removed - refer to PALM or file wrapper
NUMBER OF SEQ ID NOS: 4031
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3959
LENGTH: 8439
TYPE: DNA
ORGANISM: Homo sapiens
US-09-764-877-3959

Query Match
Best Local Similarity 90.6%; Score 15.4; DB 10; Length 8439;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Db 3827 GGGGGCCTCTGCTGCC 3811

RESULT 2
US-09-764-877-3960/C
Sequence 3960, Application US/09764877
Patent No. US20020147140A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC005
CURRENT APPLICATION NUMBER: US/09/764,877
CURRENT FILING DATE: 2001-01-17
Prior application data removed - refer to PALM or file wrapper
NUMBER OF SEQ ID NOS: 4031
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3960


```

; LENGTH: 9875
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-764-877-3960

Query Match
Best Local Similarity 90.6%; Score 15.4; DB 10; Length 9875;
Best Local Similarity 94.1%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCCGCTCTGTCGCC 17
    ||||| |||||
Db 5263 GGGGCCGCTCTGTCGCC 5247

RESULT 3
; US-09-764-860-1018
; Sequence 1018, Application US/09764860
; Patent No. US20020094953A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008
; CURRENT APPLICATION NUMBER: US/09/764,860
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 1018
; LENGTH: 18385
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-764-860-1018

Query Match
Best Local Similarity 90.6%; Score 15.4; DB 10; Length 18385;
Best Local Similarity 94.1%; Pred. No. 66;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGCCGCTCTGTCGCC 17
    ||||| |||||
Db 3113 GGGGCCGCTCTGTCGCC 3129

RESULT 4
; US-09-822-830A-147
; Sequence 147, Application US/09822830A
; Patent No. US20020142952A1
; GENERAL INFORMATION:
; APPLICANT: Genetics Institute, Inc.
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Agostino, Michael J.
; APPLICANT: Howes, Steven H.
; APPLICANT: Resnick, Richard J.
; APPLICANT: Gulakota, Kamalakari
; APPLICANT: Graham, James R.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL SECRETED PROTEINS
; FILE REFERENCE: GIN 6402
; CURRENT APPLICATION NUMBER: US/09/822,830A
; CURRENT FILING DATE: 2001-03-29
; PRIOR APPLICATION NUMBER: 60/195,604
; PRIOR FILING DATE: 2000-04-06
; NUMBER OF SEQ ID NOS: 631
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 147
; LENGTH: 1229
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-822-830A-147

Query Match
Best Local Similarity 88.2%; Score 15; DB 10; Length 1229;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GGGGCCGCTCTGTCG 15
    ||||| |||||
Db 770 GGGGCCGCTCTGTCG 784

RESULT 5
; US-10-042-141-27
; Sequence 27, Application US/10042141
; Publication No. US20020183503A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 26 Human secreted proteins
; FILE REFERENCE: P2040P1
; CURRENT APPLICATION NUMBER: US/10/042,141
; CURRENT FILING DATE: 2002-01-11
; PRIOR APPLICATION NUMBER: 09/726,643
; PRIOR FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/15187
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 60/137,725
; PRIOR FILING DATE: 1999-06-07
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 27
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-10-042-141-27

Query Match
Best Local Similarity 88.2%; Score 15; DB 9; Length 1257;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGCCGCTCTGTCG 15
    ||||| |||||
Db 794 GGGGCCGCTCTGTCG 808

RESULT 6
; US-09-726-643-27
; Sequence 27, Application US/09726643
; Patent No. US2002028449A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 26 Human secreted proteins
; FILE REFERENCE: P2040P1
; CURRENT APPLICATION NUMBER: US/09/726,643
; CURRENT FILING DATE: 2000-12-01
; PRIOR APPLICATION NUMBER: PCT/US00/15187
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: 60/137,725
; PRIOR FILING DATE: 1999-06-07
; NUMBER OF SEQ ID NOS: 190
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 27
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-726-643-27

Query Match
Best Local Similarity 88.2%; Score 15; DB 10; Length 1257;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGCCGCTCTGTCG 15
    ||||| |||||
Db 794 GGGGCCGCTCTGTCG 808

RESULT 7
; US-09-910-150-12/C
; Sequence 12, Application US/09910150

```

```
; Patent No. US20020068698A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Meyers, Rachel
; APPLICANT: Rudolph-Owen, Laura
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Tsai, Fong Ying
; TITLE OF INVENTION: 13237, 18480, 2245 OR 16228 NOVEL HUMAN
; FILE REFERENCE: 38155-20020.00
; CURRENT APPLICATION NUMBER: US/09/910.150
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/219,028
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 2781
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-910-150-12
```

```
Query Match      88.2%; Score 15; DB 10; Length 2781;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 GGCCTCTCTGCTGCC 17
        |||
Db       718 GGCCTCTCTGCTGCC 704
```

```
RESULT 8
US-09-910-150-10/c
; Sequence 10, Application US/09910150
; Patent No. US20020068698A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Meyers, Rachel
; APPLICANT: Rudolph-Owen, Laura
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Tsai, Fong Ying
; TITLE OF INVENTION: 13237, 18480, 2245 OR 16228 NOVEL HUMAN
; FILE REFERENCE: 38155-20020.00
; CURRENT APPLICATION NUMBER: US/09/910.150
; PRIOR FILING DATE: 2001-07-18
; PRIOR APPLICATION NUMBER: US 60/219,028
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 3301
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (36)..(2816)
US-09-910-150-10
```

```
Query Match      88.2%; Score 15; DB 10; Length 3301;
Best Local Similarity 100.0%; Pred. No. 1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      3 GGCCTCTCTGCTGCC 17
        |||
Db       753 GGCCTCTCTGCTGCC 739
```

```
RESULT 9
US-09-783-590-11632
; Sequence 11632, Application US/09783590
; Patent No. US20020110850A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Haseltine, William A.
; APPLICANT: Li, Haodong
; APPLICANT: Rosen, Craig A.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Human Genes, Sequences, and Expression Products 16.2
; FILE REFERENCE: PO-16.2c1
; CURRENT APPLICATION NUMBER: US/09/783,590
; CURRENT FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 08/420,856
; PRIOR FILING DATE: 1995-04-12
; PRIOR APPLICATION NUMBER: 08/346,731
; PRIOR FILING DATE: 1994-11-21
; NUMBER OF SEQ ID NOS: 12485
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11632
; LENGTH: 178
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (1)
; OTHER INFORMATION: n equals a,l,g, or c
; NAME/KEY: misc feature
; LOCATION: (6)
; OTHER INFORMATION: n equals a,l,g, or c
; NAME/KEY: misc feature
; LOCATION: (24)
; OTHER INFORMATION: n equals a,l,g, or c
; NAME/KEY: misc feature
; LOCATION: (28)
; OTHER INFORMATION: n equals a,l,g, or c
; NAME/KEY: misc feature
; LOCATION: (148)
; OTHER INFORMATION: n equals a,l,g, or c
; NAME/KEY: misc feature
; LOCATION: (152)
; OTHER INFORMATION: n equals a,l,g, or c
; NAME/KEY: misc feature
; LOCATION: (161)
; OTHER INFORMATION: n equals a,l,g, or c
US-09-783-590-11632
```

```
Query Match      84.7%; Score 14.4; DB 10; Length 178;
Best Local Similarity 94.8%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGCCTCTCTGCTGCC 16
        |||
Db       112 GGCCTCTCTGCTGCC 127
```

```
RESULT 10
US-09-796-692-7024/c
; Sequence 7024, Application US/09796692
; Publication No. US20020198362A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THER
; FILE REFERENCE: 2077.001200
; CURRENT APPLICATION NUMBER: US/09/796,692
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 60/200,303
; PRIOR FILING DATE: 2000-04-28
```

```

; PRIOR APPLICATION NUMBER: 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/222,903
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 60/223,416
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 60/223,378
; PRIOR FILING DATE: 2000-08-07
; NUMBER OF SEQ ID NOS: 9597
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7024
; LENGTH: 296
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-796-692-7024
```

```

Query Match      84.7%: Score 14.4; DB 9; Length 296;
Best Local Similarity 93.8%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 GGGCGCTCTGTGTC 16
        ||||| ||||| |||||
DB      68 GGGCGCTCTGTGTC 53
```

```

RESULT 11
US-09-796-692-3660
; Sequence 3660, Application US/09796692
; Publication No. US20020198362A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
; FILE REFERENCE: 2077.001200
; CURRENT APPLICATION NUMBER: US/09/796,692
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/222,903
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 60/223,416
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 60/223,378
; PRIOR FILING DATE: 2000-08-07
; NUMBER OF SEQ ID NOS: 9597
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3660
```

```

; LENGTH: 301
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-796-692-3660
```

```

Query Match      84.7%: Score 14.4; DB 9; Length 301;
Best Local Similarity 93.8%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1 GGGCGCTCTGTGTC 16
        ||||| ||||| |||||
DB      234 GGGCGCTCTGTGTC 249
```

```

RESULT 12
US-09-867-701-5064
; Sequence 5064, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5064
; LENGTH: 433
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(433)
; OTHER INFORMATION: n = A,T,C or G
US-09-867-701-5064
```

```

Query Match      84.7%: Score 14.4; DB 10; Length 433;
Best Local Similarity 93.8%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2 GGGCGCTCTGTGTC 17
        ||||| ||||| |||||
DB      2 GGGCGCTCTGTGTC 17
```

```

RESULT 13
US-09-822-849A-580/C
; Sequence 580, Application US/09822849A
; Patent No. US20020045170A1
; GENERAL INFORMATION:
; APPLICANT: Wong, Gordon G.
; APPLICANT: Clark, Hilary
; APPLICANT: Fechtel, Kim
; APPLICANT: Agostino, Michael J.
; APPLICANT: Howes, Steven H.
; APPLICANT: Resnick, Richard J.
; APPLICANT: Guinkota, Kamalakar
; APPLICANT: Graham, James R.
; APPLICANT: Genetics Institute, Inc.
; TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING NOVEL SECRETED PROTEINS
; FILE REFERENCE: GIN 6403
; CURRENT APPLICATION NUMBER: US/09/822,849A
; CURRENT FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: 60/195,582
; PRIOR FILING DATE: 2000-04-06
; NUMBER OF SEQ ID NOS: 598
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 580
; LENGTH: 746
; TYPE: DNA
```

ORGANISM: Homo sapiens
US-09-822-849A-580

Query Match 84.7%; Score 14.4; DB 10; Length 746;
Best Local Similarity 93.8%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GGGCGCTCTGCTGCC 16
|||||
DB 617 GGGCGCTCTGCTGCC 602

RESULT 14

US-09-954-697-29
Sequence 29, Application US/09954697
Patent No. US20020106631A1
GENERAL INFORMATION:
APPLICANT: Alnemrl, Emad S.
TITLE OF INVENTION: RECOMBINANT, ACTIVE CASPASES AND USSES
FILE REFERENCE: 480140.431D2
CURRENT APPLICATION NUMBER: US/09/954,697
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 116
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 29
LENGTH: 1252
TYPE: DNA
ORGANISM: Homo sapien
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(1252)
OTHER INFORMATION: n = A,T,C or G
US-09-954-697-29

Query Match 84.7%; Score 14.4; DB 10; Length 1252;
Best Local Similarity 93.8%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 GGGCGCTCTGCTGCC 17
|||||
DB 659 GGGCGCTCTGCTGCC 674

RESULT 15
US-10-029-180-75
Sequence 75, Application US/10029180
Publication No. US20020182708A1
GENERAL INFORMATION:
APPLICANT: Calli, Brian M.
APPLICANT: Holtzman, Doug
APPLICANT: Madden, Kevin T.
APPLICANT: Milna, G. Todd
APPLICANT: Sherman, Amir
APPLICANT: Silva, Jeffry C.
APPLICANT: Trueheart, Josh
TITLE OF INVENTION: NO. US20020182708A1e1 Regulators of Fungal Gene Expression
FILE REFERENCE: MIC-004
CURRENT APPLICATION NUMBER: US/10/029,180
CURRENT FILING DATE: 2001-12-22
PRIOR APPLICATION NUMBER: US 60/257,431
PRIOR FILING DATE: 2000-12-22
NUMBER OF SEQ ID NOS: 138
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 75
LENGTH: 1470
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fungal gene
US-10-029-180-75

Query Match 84.7%; Score 14.4; DB 9; Length 1470;
Best Local Similarity 93.8%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 GGGCGCTCTGCTGCC 17
|||||
DB 228 GGGCGCTCTGCTGCC 243

Search completed: February 18, 2003, 07:09:24
Job time : 93.8641 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 : Search time 30.5854 Seconds

(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-17

Perfect score: 21

Sequence: 1 GACGTCGACCTACGCGCTGAC 21

Scoring table: IDENTITY_NUC

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2.6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2.6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2.6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2.6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2.6/ptodata/2/ina/PCITUS.COMB.seq:*
6: /cgn2.6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	21	100.0	4403765	4	US-09-103-840A-2
2	16.8	80.0	3606	1	US-07-661-610C-7
3	15.2	72.4	33	2	US-08-324-003A-14
4	15.2	72.4	358	1	US-07-925-920-1
5	15.2	72.4	1023	2	US-08-484-358-6
6	15.2	72.4	1023	3	US-09-118-959-6
7	15.2	72.4	1728	1	US-08-427-097-1
8	15.2	72.4	1728	1	US-08-878-957-1
9	15.2	72.4	1746	1	US-08-427-097-29
10	15.2	72.4	1746	2	US-08-878-957-13
11	15.2	72.4	1752	1	US-08-427-097-13
12	15.2	72.4	1752	1	US-08-427-097-15
13	15.2	72.4	1752	1	US-08-427-097-19
14	15.2	72.4	1752	1	US-08-427-097-27
15	15.2	72.4	1752	2	US-08-878-957-13
16	15.2	72.4	1752	2	US-08-878-957-15
17	15.2	72.4	1752	2	US-08-878-957-19
18	15.2	72.4	1752	2	US-08-878-957-27
19	15.2	72.4	1865	4	US-09-370-253-5
20	15.2	72.4	2109	1	US-08-617-801A-5
21	15.2	72.4	2141	1	US-08-891-254-2
22	15.2	72.4	2141	2	US-08-484-358-1
23	15.2	72.4	2141	2	US-08-819-539-2
24	15.2	72.4	2141	2	US-09-030-270A-2
25	15.2	72.4	2141	3	US-09-118-959-1
26	15.2	72.4	2141	4	US-08-984-207-2
27	15.2	72.4	2141	4	US-09-013-587-2

28	15.2	72.4	2141	5	PCT-US96-08819-2	Sequence 2, Appl
29	15.2	72.4	2220	2	US-08-617-801A-1	Sequence 1, Appl
30	15.2	72.4	2245	2	US-08-617-801A-3	Sequence 3, Appl
31	15.2	72.4	2835	4	US-09-134-001C-1515	Sequence 1515, Ap
32	15.2	72.4	3561	4	US-09-134-001C-1685	Sequence 1685, Ap
33	15.2	72.4	6414	4	US-09-134-001C-1626	Sequence 1626, Ap
34	14.8	70.5	4411529	4	US-09-103-840A-1	Sequence 1, Appl
35	14.6	69.5	683	4	US-09-221-017B-814	Sequence 814, App
36	14.6	69.5	1254	1	US-08-313-553-1	Sequence 1, Appl
37	14.6	69.5	1254	3	US-08-767-993-1	Sequence 1, Appl
38	14.6	69.5	1268	2	US-08-403-852D-2	Sequence 2, Appl
39	14.6	69.5	1268	3	US-08-510-646B-2	Sequence 2, Appl
40	14.6	69.5	1268	4	US-09-231-818-2	Sequence 2, Appl
41	14.6	69.5	1632	1	US-08-362-232-1	Sequence 1, Appl
42	14.6	69.5	1632	1	US-08-814-196-1	Sequence 1, Appl
43	14.6	69.5	2147	1	US-08-313-553-14	Sequence 14, Appl
44	14.6	69.5	2147	3	US-08-767-993-14	Sequence 14, Appl
45	14.6	69.5	4810	4	US-09-596-824-5	Sequence 5, Appl

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTNER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103.840A
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CPC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
US-09-103-840A-2

Query Match          100.0%; Score 21; DB 4; Length 4403765;
Best Local Similarity 100.0%; Pred. No. 0.17;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GACGTCGACCTACGCGCTGAC 21
Db 3082420 GACGTCGACCTACGCGCTGAC 3082440

RESULT 2
US-07-661-610C-7/c
; Sequence 7, Application US/07661610C
; Patent No. 5292643
; GENERAL INFORMATION:
; APPLICANT: Shibano, Yuji
; APPLICANT: Toyoda, Hideyoshi
; APPLICANT: Utsunji, Ryutaro
; APPLICANT: Ohtani, Kazuaki
; TITLE OF INVENTION: Fusaric Acid Resistant Genes
; NUMBER OF SEQUENCES: 15
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MATER & NEUSTADT,
; ADDRESSER: P.C.
; STREET: 1755 Jefferson Davis Highway, Fourth Floor
```

CITY: Arlington
STATE: Virginia
ZIP: 22202
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/661,610C
FILING DATE: 19910228
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Odion, No. 5292643man F.
REGISTRATION NUMBER: 24,618
REFERENCE/DOCKET NUMBER: 2292-010-0
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703)521-4500
TELEFAX: (703)486-2347
TELEX: 248855 OPAT UR
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 3606 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 385..813
FEATURE:
NAME/KEY: CDS
LOCATION: 1382..2083
FEATURE:
NAME/KEY: CDS
LOCATION: 2591..3011
US-07-661-610C-7
Query Match 80.0%; Score 16.8; DB 1; Length 3606;
Best Local Similarity 90.0%; Pred. No. 18;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 GACGTGACCTAGCGGCTGA 20
Db 2803 GACGTGCGCCTGCGCGCTGA 2784
RESULT 3
US-08-324-003A-14/c
Sequence 14, Application US/08324003A
Patent No. 5977438
GENERAL INFORMATION:
APPLICANT: Turpen, Thomas H.
APPLICANT: Reinl, Stephen
TITLE OF INVENTION: Production of Peptides in Plants as
TITLE OF INVENTION: Viral Coat Protein Fusions
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/324,003A
FILING DATE: 14-OCT-1994

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Halluin, Albert P.
REGISTRATION NUMBER: 25,227
REFERENCE/DOCKET NUMBER: 8129-087
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-854-3660
TELEFAX: 415-854-3694
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 33 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-324-003A-14
Query Match 72.4%; Score 15.2; DB 2; Length 33;
Best Local Similarity 85.0%; Pred. No. 1,2e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 2 ACCTGACCTAGCGGCTGAC 21
Db 33 ACCTGACCTAGCTGATGAC 14
RESULT 4
US-07-925-920-1
Sequence 1, Application US/07925920
Patent No. 5328998
GENERAL INFORMATION:
APPLICANT: Labes, Gabrielle
APPLICANT: Wohleben, Wolfgang
TITLE OF INVENTION: A Promoter Screening Vector, and the Isolation
TITLE OF INVENTION: Streptomycetes Promoters Found Therewith,
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Flinagan, Henderson, Farbow, Garrett &
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentln Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/925,920
FILING DATE: 19920807
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 41 26 415.0
FILING DATE: 09-AUG-1991
ATTORNEY/AGENT INFORMATION:
NAME: Madler, Linda A.
REGISTRATION NUMBER: 33,218
REFERENCE/DOCKET NUMBER: 02481-1213-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-408-4000
TELEFAX: 202-408-4400
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 358 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-07-925-920-1


```

; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 1728 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 14..1708
;
; US-08-427-097-1
;
Query Match          72.4%; Score 15.2; DB 1; Length 1728;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY      2  ACCTCGACCTA TGGCTGAC 21
        |||||  || |||||
Db       155  ACCTCACCAGCGCGCTGAC 174

RESULT 8
US-08-878-957-1
; Sequence 1, Application US/08878957
; Patent No. 5965796
; GENERAL INFORMATION:
; APPLICANT: Meagher, Richard B.
; APPLICANT: Summers, Anne O.
; APPLICANT: Rugh, Clayton L.
; TITLE OF INVENTION: Metal Resistance Sequences and
;   NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/878,957
; FILING DATE: 19-JUN-1997
; CLASSIFICATION: 800
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/427,097
; FILING DATE: 21-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 40-94A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 1728 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: linear
;   MOLECULE TYPE: DNA (genomic)
;   HYPOTHETICAL: NO
;   ANTI-SENSE: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 14..1708
;
; US-08-878-957-1
```

```

US-08-878-957-1
;
Query Match          72.4%; Score 15.2; DB 2; Length 1728;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY      2  ACCTCGACCTACCGCTGAC 21
        |||||  || |||||
Db       155  ACCTCACCAGCGCGCTGAC 174

RESULT 9
US-08-427-097-29
; Sequence 29, Application US/08427097
; Patent No. 5668294
; GENERAL INFORMATION:
; APPLICANT: Meagher, Richard B.
; APPLICANT: Summers, Anne O.
; TITLE OF INVENTION: Metal Resistance Sequences and
;   NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/427,097
; FILING DATE: 21-APR-1995
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 40-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
;   LENGTH: 1746 base pairs
;   TYPE: nucleic acid
;   STRANDEDNESS: double
;   TOPOLOGY: not relevant
;   MOLECULE TYPE: other nucleic acid
;   DESCRIPTION: /desc = "Mutagenized merApe29"
;   HYPOTHETICAL: NO
;   FEATURE:
;     NAME/KEY: CDS
;     LOCATION: 40..1728
;     NAME/KEY: mat_peptide
;     LOCATION: 40..1725
;
; US-08-427-097-29
;
Query Match          72.4%; Score 15.2; DB 1; Length 1746;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY      2  ACCTCGACCTACCGCTGAC 21
        |||||  || |||||
Db       181  ACCTCACCAGCGCGCTGAC 200

RESULT 10
US-08-878-957-29
; Sequence 29, Application US/08878957
```



```
; Patent No. 5965796
; GENERAL INFORMATION:
; APPLICANT: Meagher, Richard B.
; APPLICANT: Summers, Anne O.
; APPLICANT: Rugh, Clayton L.
; TITLE OF INVENTION: Metal Resistance Sequences and
; TITLE OF INVENTION: Transgenic Plants
; NUMBER OF SEQUENCES: 34
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: Colorado
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/878,957
; FILING DATE: 19-JUN-1997
; CLASSIFICATION: 800
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: US 08/427,097
; FILING DATE: 21-APR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 40-94A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; TELEX:
; INFORMATION FOR SEQ ID NO: 29:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1746 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: not relevant
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Mutagenized merApe29"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 40..1728
; NAME/KEY: mat_peptide
; LOCATION: 40..1725
; US-08-878-957-29
;
; Query Match 72.4%; Score 15.2; DB 2; Length 1746;
; Best Local Similarity 85.0%; Pred. No. 1e+02;
; Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 2 ACCTGACCTACGGCGCTGAC 21
    ||||| 11 |||||
Db 181 ACCTGACCTACGGCGCTGAC 200

RESULT 11
; US-08-427-097-13
; Sequence 13, Application US/08427097
; Patent No. 5668294
; GENERAL INFORMATION:
; APPLICANT: Meagher, Richard B.
; APPLICANT: Summers, Anne O.
; TITLE OF INVENTION: Metal Resistance Sequences and
; TITLE OF INVENTION: Transgenic Plants
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
```

```
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/427,097
; FILING DATE: 21-APR-1995
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Ferber, Donna M.
; REGISTRATION NUMBER: 33,878
; REFERENCE/DOCKET NUMBER: 40-94
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (303) 499-8080
; TELEFAX: (303) 499-8089
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1752 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: not relevant
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Mutagenized merApe38"
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 40..1734
; NAME/KEY: mat_peptide
; LOCATION: 40..1731
; US-08-427-097-13
```

```
Query Match 72.4%; Score 15.2; DB 1; Length 1752;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 2 ACCTGACCTACGGCGCTGAC 21
    ||||| 11 |||||
Db 181 ACCTGACCTACGGCGCTGAC 200

RESULT 12
; US-08-427-097-15
; Sequence 15, Application US/08427097
; Patent No. 5668294
; GENERAL INFORMATION:
; APPLICANT: Meagher, Richard B.
; APPLICANT: Summers, Anne O.
; TITLE OF INVENTION: Metal Resistance Sequences and
; TITLE OF INVENTION: Transgenic Plants
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
; STREET: 5370 Manhattan Circle, Suite 201
; CITY: Boulder
; STATE: CO
; COUNTRY: US
; ZIP: 80303
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/427,097
; FILING DATE: 21-APR-1995
; CLASSIFICATION: 800
```

ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 40-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1752 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: not relevant
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Mutagenized merApe9"
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 40..1734
NAME/KEY: mat_peptide
LOCATION: 40..1731
US-08-427-097-15

Query Match 72.4% Score 15.2; DB 1; Length 1752;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 ACCTGACCTACCGCGTGAC 21
||||| 11 1111111111
Db 181 ACCTCACCGACGCGCTGAC 200

RESULT 13
US-08-427-097-19
Sequence 19, Application US/08427097
Patent No. 5668294
GENERAL INFORMATION:
APPLICANT: Meagher, Richard B.
APPLICANT: Sommers, Anne O.
TITLE OF INVENTION: Metal Resistance Sequences and
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/427,097
FILING DATE: 21-Apr-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 40-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 19:
SEQUENCE CHARACTERISTICS:
LENGTH: 1752 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: not relevant
MOLECULE TYPE: other nucleic acid

DESCRIPTION: /desc = "Mutagenized merApe47"
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 40..1734
NAME/KEY: mat_peptide
LOCATION: 40..1731
US-08-427-097-19

Query Match 72.4% Score 15.2; DB 1; Length 1752;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 ACCTGACCTACCGCGTGAC 21
||||| 11 1111111111
Db 181 ACCTCACCGACGCGCTGAC 200

RESULT 14
US-08-427-097-27
Sequence 27, Application US/08427097
Patent No. 5668294
GENERAL INFORMATION:
APPLICANT: Meagher, Richard B.
APPLICANT: Sommers, Anne O.
TITLE OF INVENTION: Metal Resistance Sequences and
NUMBER OF SEQUENCES: 30
CORRESPONDENCE ADDRESS:
ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
STREET: 5370 Manhattan Circle, Suite 201
CITY: Boulder
STATE: CO
COUNTRY: US
ZIP: 80303
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/427,097
FILING DATE: 21-Apr-1995
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Ferber, Donna M.
REGISTRATION NUMBER: 33,878
REFERENCE/DOCKET NUMBER: 40-94
TELECOMMUNICATION INFORMATION:
TELEPHONE: (303) 499-8080
TELEFAX: (303) 499-8089
INFORMATION FOR SEQ ID NO: 27:
SEQUENCE CHARACTERISTICS:
LENGTH: 1752 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: not relevant
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "Mutagenized merApe20"
HYPOTHETICAL: NO
FEATURE:
NAME/KEY: CDS
LOCATION: 40..1734
NAME/KEY: mat_peptide
LOCATION: 40..1731
US-08-427-097-27

Query Match 72.4% Score 15.2; DB 1; Length 1752;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 ACGTCGACCTACGCGCTGAC 21
 ||||| 11 |||||
 Db 181 ACGTCACCGACGCGCTGAC 200

RESULT 15

US-08-878-957-13
 ; Sequence 13, Application US/08878957
 ; Patent No. 5965796
 ; GENERAL INFORMATION:
 ; APPLICANT: Meagher, Richard B.
 ; APPLICANT: Summers, Anne O.
 ; APPLICANT: Rugh, Clayton L.
 ; TITLE OF INVENTION: Metal Resistance Sequences and
 ; TITLE OF INVENTION: Transgenic Plants
 ; NUMBER OF SEQUENCES: 34
 ; CORRESPONDENCE ADDRESSES:
 ; ADDRESSEE: Greenlee, Winner and Sullivan, P.C.
 ; STREET: 5370 Manhattan Circle, Suite 201
 ; CITY: Boulder
 ; STATE: Colorado
 ; COUNTRY: US
 ; ZIP: 80303
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: PatentIn Release #1.0, Version #1.30
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/878,957
 ; FILING DATE: 19-JUN-1997
 ; CLASSIFICATION: 800
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: US 08/427,097
 ; FILING DATE: 21-APR-1995
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Feider, Donna M.
 ; REGISTRATION NUMBER: 33,878
 ; REFERENCE/DOCKET NUMBER: 40-94A
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: (303) 499-8080
 ; TELEFAX: (303) 499-8089
 ; TELEEX:
 ; INFORMATION FOR SEQ ID NO: 13:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 1752 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: double
 ; TOPOLOGY: not relevant
 ; MOLECULE TYPE: other nucleic acid
 ; DESCRIPTION: /desc = "Mutagenized merApe38"
 ; HYPOTHETICAL: NO
 ; FEATURE:
 ; NAME/KEY: CDS
 ; LOCATION: 40..1734
 ; FEATURE:
 ; NAME/KEY: mat_peptide
 ; LOCATION: 40..1731
 ; US-08-878-957-13

Query Match 72.4%; Score 15.2; DB 2; Length 1752;
 Best Local Similarity 85.0%; Pred. No.1e+02;
 Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 ACGTCGACCTACGCGCTGAC 21
 ||||| 11 |||||
 Db 181 ACGTCACCGACGCGCTGAC 200

Search completed: February 17, 2003, 23:39:11
 Job time : 1037.59 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 : Search time 112.244 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-17

Sequence: 1 GAGCTGACCTACGCGCTGAC 21

Scoring table: IDENTITY-NUC
Gapop 10.0, Gapext 1.0

Searched: 424239 seqs, 25461826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

- 1: /cgn2-6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2-6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
- 3: /cgn2-6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 4: /cgn2-6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2-6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2-6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2-6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 8: /cgn2-6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2-6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 10: /cgn2-6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2-6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 12: /cgn2-6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2-6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 14: /cgn2-6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match length	ID	Description
1	18.4	87.6	287 10 US-09-294-093B-4142	Sequence 4142, Ap
2	16.2	77.1	2535 9 US-09-738-626-847	Sequence 847, App
3	15.2	72.4	33 10 US-09-823-936-23	Sequence 23, Appl
4	15.2	72.4	33 10 US-09-753-836-14	Sequence 14, Appl
5	15.2	72.4	309 10 US-09-867-550-383	Sequence 383, App
6	15.2	72.4	783 10 US-09-910-943-139	Sequence 139, App
7	15.2	72.4	1542 10 US-09-815-242-7726	Sequence 726, Ap
8	15.2	72.4	1866 9 US-09-738-626-2199	Sequence 2199, Ap
9	15.2	72.4	2141 9 US-10-034-158-2	Sequence 2, Appli
10	15.2	72.4	2141 10 US-09-086-118-22	Sequence 22, Appl
11	15.2	72.4	2141 10 US-09-833-684-2	Sequence 2, Appli
12	15.2	72.4	2141 10 US-09-880-371-2	Sequence 2, Appli
13	15.2	72.4	2141 10 US-09-879-248-2	Sequence 2, Appli
14	15.2	72.4	2141 10 US-09-770-693-2	Sequence 2, Appli
15	15.2	72.4	2141 10 US-09-766-348-2	Sequence 2, Appli
16	15.2	72.4	3951 9 US-09-712-363-31	Sequence 31, Appl
17	14.8	70.5	2331 10 US-09-815-242-4037	Sequence 4037, Ap
18	14.6	69.5	66 10 US-09-998-598-1447	Sequence 1447, Ap
19	14.6	69.5	234 10 US-09-878-574-11478	Sequence 11478, A

20	14.6	69.5	257 10 US-09-960-352-13331	Sequence 13331, A
21	14.6	69.5	260 10 US-09-878-574-7550	Sequence 7550, Ap
22	14.6	69.5	264 10 US-09-878-574-13327	Sequence 13327, A
23	14.6	69.5	267 10 US-09-878-574-12531	Sequence 12531, A
24	14.6	69.5	269 10 US-09-878-574-11852	Sequence 11852, A
25	14.6	69.5	331 10 US-09-867-550-91	Sequence 91, Appl
26	14.6	69.5	477 10 US-09-998-598-654	Sequence 654, App
27	14.6	69.5	714 9 US-09-738-626-2482	Sequence 2482, Ap
28	14.6	69.5	807 10 US-09-815-242-7959	Sequence 399, App
29	14.6	69.5	833 12 US-10-044-090-399	Sequence 21, Appl
30	14.6	69.5	875 10 US-09-903-814-21	Sequence 268, App
31	14.6	69.5	1534 12 US-10-044-090-268	Sequence 2481, Ap
32	14.6	69.5	1560 9 US-09-738-626-2481	Sequence 6094, Ap
33	14.6	69.5	1773 10 US-09-815-242-6094	Sequence 5, Appli
34	14.6	69.5	4810 10 US-09-885-329-5	Sequence 1, Appli
35	14.6	69.5	15872 9 US-09-860-846-1	Sequence 1, Appli
36	14.6	69.5	15872 10 US-09-861-289-1	Sequence 142, App
37	14.4	68.6	912 10 US-09-764-853-142	Sequence 7597, App
38	14.2	67.6	150 10 US-09-867-701-7597	Sequence 429, App
39	14.2	67.6	365 10 US-09-960-352-429	Sequence 179, App
40	14.2	67.6	496 10 US-09-864-864-179	Sequence 13, Appl
41	14.2	67.6	1065 10 US-09-999-162-13	Sequence 1, Appli
42	14.2	67.6	1287 12 US-10-029-715-1	Sequence 166, App
43	14.2	67.6	16950 9 US-10-114-170-166	Sequence 11576, A
44	13.8	65.7	109 10 US-09-878-574-11576	Sequence 5725, Ap
45	13.8	65.7	264 10 US-09-878-574-5725	

ALIGNMENTS

RESULT 1
US-09-294-093B-4142
Sequence 4142, Application US/09294093B
Patent No. US20010051335A1
GENERAL INFORMATION:
APPLICANT: Laligudi, Radhumnath, V.
APPLICANT: Ito, Laura, Y.
APPLICANT: Sherman, Bradley, K.
FILE OF INVENTION: 0009 US
CURRENT APPLICATION NUMBER: US/09/294,093B
CURRENT FILING DATE: 1999-04-16
PRIOR APPLICATION NUMBER: 60/082,567
PRIOR FILING DATE: April 21, 1998
NUMBER OF SEQ ID NOS: 6207
SOFTWARE: PERL Program
SEQ ID NO 4142
LENGTH: 287
TYPE: DNA
ORGANISM: Zea mays
FEATURE:
NAME/KEY: misc.feature
OTHER INFORMATION: incyte ID No. US20010051335A1 700353188H1
LOCATION: 27, 282
OTHER INFORMATION: a, t, c, g, or other
US-09-294-093B-4142
Query Match
Best Local Similarity 87.6%: Score 18.4: DB 10: Length 287:
Matches 19: Conservative 95.0%: Pred. No. 2.6: Indels 0: Gaps 0:
Matches 19: Conservative 95.0%: Pred. No. 2.6: Indels 0: Gaps 0:
Db 108 AGCTGACCTACGCGCTGAC 127
US-09-738-626-847/c
; Sequence 847, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:

```

: Patent No. US20020107387A1
:
: GENERAL INFORMATION:
: APPLICANT: Turpen, Thomas H.
:              Reil, Stephen
:              Grill, Laurence K.
:
: TITLE OF INVENTION: Production of peptides in plants as
:                   Viral Coat Protein Fusions
:
: NUMBER OF SEQUENCES: 27
:
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Pennie & Edmonds
: STREET: 1155 Avenue of the Americas
: CITY: New York
: STATE: New York
: COUNTRY: USA
: ZIP: 10036
:
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Patent In Release #1.0, Version #1.25
:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/755,836
: FILING DATE: 05-Jan-2001
: CLASSIFICATION: <unknown>
:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US/08/324,003
: FILING DATE: 14-OCT-1994
:
: ATTORNEY/AGENT INFORMATION:
: NAME: Halliwin, Albert P.
: REGISTRATION NUMBER: 25,227
: REFERENCE/DOCKET NUMBER: 8129-087
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 415-854-3660
: TELEFAX: 415-854-3694
:
: TEXT: 66141 PENNIE
:
: INFORMATION FOR SEQ ID NO: 14:
:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 33 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: unknown
: TOPOLOGY: unknown
:
: MOLECULE TYPE: DNA (genomic)
:
: SEQUENCE DESCRIPTION: SEQ ID NO: 14:
:
: US-09-755-836-14
:
: Query Match          72.4%; Score 15.2; DB 10; Length 33;
: Best Local Similarity 85.0%; Pred. No. 1.1e+02;
:
: Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
:
: Oy      2  ACGTCGACCTACGCCCTGAC 21
:           111111111111111111111
:
: Db      33  ACGTCGACCTACGTGATGAC 14
:
:
: RESULT 5
: US-09-867-550-383
: ; Sequence 383, Application US/09867550
: ; Patent No. US20020082206A1
: ; GENERAL INFORMATION:
: ; APPLICANT: Leach, Martin D.
: ; APPLICANT: Mehrahan, Farid
: ; APPLICANT: Conley, Pamela
: ; APPLICANT: Law, Debbie
: ; APPLICANT: Topper, James
: ; TITLE OF INVENTION: No. US20020082206A1el Polynucleotides from Atherogenic Cells a
: ; FILE REFERENCE: 21402-013 (Cura-313)
: ; CURRENT APPLICATION NUMBER: US/09/867,550
: ; CURRENT FILING DATE: 2001-09-20
: ; PRIOR APPLICATION NUMBER: USSN 60/208,427
: ; PRIOR FILING DATE: 2000-05-30
: ; NUMBER OF SEQ ID NOS: 2125
: ; SOFTWARE: FastSeq for Windows Version 4.0

```

```
SEQ ID NO 383
LENGTH: 309
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(283)
OTHER INFORMATION: wherein any n is one of a or t or g or c
US-09-867-550-383
```

```
Query Match          72.4%; Score 15.2; DB 10; Length 309;
Best Local Similarity 85.0%; Pred. No. 87;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      2  ACCTGACCTACGCGCTGAC 21
DB      73  ACCTGACGTATGCTTGAC 92
```

```
RESULT 6
US-09-910-943-139/c
```

```
Sequence 139, Application US/09910943
```

```
Patent No. US20020081610A1
```

```
GENERAL INFORMATION:
```

```
APPLICANT: Hemmati-Briyvanlou, Ali
```

```
APPLICANT: Altman, Curtis
```

```
TITLE OF INVENTION: Assays and Materials for Embryonic Gene Expression
```

```
FILE REFERENCE: 7529/1G1480S1
```

```
CURRENT APPLICATION NUMBER: US/09/910,943
```

```
CURRENT FILING DATE: 2001-07-23
```

```
NUMBER OF SEQ ID NOS: 742
```

```
SOFTWARE: PatentIn version 3.1
```

```
SEQ ID NO 139
```

```
LENGTH: 783
```

```
TYPE: DNA
```

```
ORGANISM: Xenopus laevis
```

```
FEATURE:
```

```
NAME/KEY: misc_feature
```

```
LOCATION: (1)..(783)
```

```
OTHER INFORMATION: n may be a or g or c or t/u
```

```
US-09-910-943-139
```

```
Query Match          72.4%; Score 15.2; DB 10; Length 783;
Best Local Similarity 85.0%; Pred. No. 80;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1  GAGCTGACCTACGCGCTGA 20
DB      222  GAGCTCTACTACTCGCTGA 203
```

```
RESULT 7
US-09-815-242-7726
```

```
Sequence 7726, Application US/09815242
```

```
Patent No. US20020061569A1
```

```
GENERAL INFORMATION:
```

```
APPLICANT: Haselbeck, Robert
```

```
APPLICANT: Ohlsen, Karl L.
```

```
APPLICANT: Zyskind, Judith W.
```

```
APPLICANT: Wall, Daniel
```

```
APPLICANT: Trawick, John D.
```

```
APPLICANT: Carr, Grant J.
```

```
APPLICANT: Yamamoto, Robert T.
```

```
APPLICANT: Xu, H. Howard
```

```
TITLE OF INVENTION: Identification of Essential Genes in
```

```
FILE REFERENCE: ELITRA.011A
```

```
CURRENT APPLICATION NUMBER: US/09/815,242
```

```
CURRENT FILING DATE: 2001-03-21
```

```
PRIOR APPLICATION NUMBER: 60/191,078
```

```
PRIOR FILING DATE: 2000-03-21
```

```
PRIOR APPLICATION NUMBER: 60/206,848
```

```
PRIOR FILING DATE: 2000-05-23
```

```
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: PastSeq for Windows Version 4.0
SEQ ID NO 7726
LENGTH: 1542
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
FEATURE:
NAME/KEY: CDS
LOCATION: (1)..(1542)
US-09-815-242-7726
```

```
Query Match          72.4%; Score 15.2; DB 10; Length 1542;
Best Local Similarity 85.0%; Pred. No. 75;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1  GAGCTGACCTACGCGCTGA 20
DB      624  GCGGTGACCTACGCGCTGA 643
```

```
RESULT 8
US-09-738-626-2199
```

```
Sequence 2199, Application US/09738626
```

```
Publication No. US20020197605A1
```

```
GENERAL INFORMATION:
```

```
APPLICANT: NAKAGAWA, SATOSHI
```

```
APPLICANT: MIZOGUCHI, HIROSHI
```

```
APPLICANT: ANDO, SEIKO
```

```
APPLICANT: HATASHI, MIKIRO
```

```
APPLICANT: OCHIAI, KEIKO
```

```
APPLICANT: YOKOI, HARUHIKO
```

```
APPLICANT: TATEISHI, NAOKO
```

```
APPLICANT: SENO, AKIHITO
```

```
APPLICANT: IKEDA, MASATU
```

```
APPLICANT: OZAKI, AKIO
```

```
TITLE OF INVENTION: NOVEL POLYMERIZATION
```

```
FILE REFERENCE: 249-125
```

```
CURRENT APPLICATION NUMBER: US/09/738,626
```

```
CURRENT FILING DATE: 2000-12-18
```

```
PRIOR APPLICATION NUMBER: JP 99/377484
```

```
PRIOR FILING DATE: 1999-12-16
```

```
PRIOR APPLICATION NUMBER: JP 00/159162
```

```
PRIOR FILING DATE: 2000-04-07
```

```
PRIOR APPLICATION NUMBER: JP 00/280988
```

```
PRIOR FILING DATE: 2000-08-03
```

```
NUMBER OF SEQ ID NOS: 7059
```

```
SOFTWARE: PatentIn ver. 3.0
```

```
SEQ ID NO 2199
```

```
LENGTH: 1866
```

```
TYPE: DNA
```

```
ORGANISM: Corynebacterium glutamicum
```

```
US-09-738-626-2199
```

```
Query Match          72.4%; Score 15.2; DB 9; Length 1866;
Best Local Similarity 85.0%; Pred. No. 74;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1  GAGCTGACCTACGCGCTGA 20
DB      955  GCGGTGACCTACGCGCTGA 974
```

```
RESULT 9
```


GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 : Search time 26.216 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-18

Perfect score: 18
Sequence: 1 CTCGGTGAACGGCACCCC 18

Scoring table:
Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents.NA.*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCrUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	18	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
C 2	18	100.0	4411529	4 US-09-103-840A-1	Sequence 1, Appli
C 3	14.8	82.2	24	1 US-08-557-139-13	Sequence 13, Appli
C 4	14.8	82.2	6152	1 US-08-557-139-1	Sequence 1, Appli
C 5	14.8	82.2	15664	1 US-08-402-282-3	Sequence 3, Appli
C 6	14.8	82.2	15664	1 US-08-508-004-3	Sequence 3, Appli
C 7	14.8	82.2	15664	1 US-08-402-066-3	Sequence 3, Appli
C 8	14.8	82.2	15664	1 US-08-402-068-3	Sequence 3, Appli
C 9	14.8	82.2	4403765	4 US-09-103-840A-2	Sequence 2, Appli
C 10	14.4	80.0	824	4 US-09-221-017B-853	Sequence 853, App
C 11	14	77.8	345	4 US-08-651-155B-119	Sequence 119, App
C 12	14	77.8	1195	4 US-09-072-596-336	Sequence 336, App
C 13	13.8	76.7	181	2 US-08-485-657A-19	Sequence 19, Appli
C 14	13.8	76.7	181	5 PCM-US95-02303-18	Sequence 18, Appli
C 15	13.8	76.7	195	2 US-08-485-657A-14	Sequence 14, Appli
C 16	13.8	76.7	195	5 PCT-US95-02303-14	Sequence 14, Appli
C 17	13.8	76.7	864	3 US-09-087-194-34	Sequence 34, Appli
C 18	13.8	76.7	1125	2 US-08-709-874A-25	Sequence 25, Appli
C 19	13.8	76.7	1125	4 US-09-104-382-25	Sequence 25, Appli
C 20	13.8	76.7	1233	4 US-08-765-907A-12	Sequence 12, Appli
C 21	13.8	76.7	1269	1 US-08-396-218-1	Sequence 1, Appli
C 22	13.8	76.7	1269	1 US-08-760-116-1	Sequence 1, Appli
C 23	13.8	76.7	1311	2 US-08-899-028A-1	Sequence 1, Appli
C 24	13.8	76.7	1311	2 US-09-210-124-1	Sequence 1, Appli
C 25	13.8	76.7	1311	4 US-09-210-009-1	Sequence 1, Appli
C 26	13.8	76.7	1561	4 US-08-765-907A-11	Sequence 11, Appli
C 27	13.8	76.7	1648	4 US-09-659-791A-3	Sequence 3, Appli

C 28	13.8	76.7	1931	4 US-09-118-442-10	Sequence 10, Appli
C 29	13.8	76.7	1931	4 US-09-677-064-10	Sequence 10, Appli
C 30	13.8	76.7	2081	2 US-09-096-982-7	Sequence 7, Appli
C 31	13.8	76.7	2081	2 US-08-653-650A-7	Sequence 6, Appli
C 32	13.8	76.7	3013	2 US-09-096-982-6	Sequence 6, Appli
C 33	13.8	76.7	3013	2 US-08-653-650A-6	Sequence 6, Appli
C 34	13.8	76.7	3196	2 US-09-096-982-4	Sequence 4, Appli
C 35	13.8	76.7	3196	2 US-08-653-650A-4	Sequence 4, Appli
C 36	13.8	76.7	3546	4 US-09-118-442-14	Sequence 14, Appli
C 37	13.8	76.7	3546	4 US-09-118-442-15	Sequence 15, Appli
C 38	13.8	76.7	3546	4 US-09-677-064-14	Sequence 14, Appli
C 39	13.8	76.7	3546	4 US-09-677-064-15	Sequence 15, Appli
C 40	13.8	76.7	15872	4 US-09-105-537-1	Sequence 1, Appli
C 41	13.8	76.7	20235	1 US-07-642-734C-3	Sequence 3, Appli
C 42	13.8	76.7	20235	3 US-08-439-009A-3	Sequence 3, Appli
C 43	13.8	76.7	43280	2 US-08-804-227C-1	Sequence 1, Appli
C 44	13.8	76.7	4411529	4 US-09-103-840A-1	Sequence 1, Appli
C 45	13.4	74.4	1839	4 US-09-203-895-2	Sequence 2, Appli

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
US-09-103-840A-2
;
Query Match 100.0% Score 18; DB 4; Length 4403765;
Best Local Similarity 100.0% Pred. No. 1.7;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 CTCGGTGAACGGCACCCC 18
DB 3082594 CTCGGTGAACGGCACCCC 3082577
RESULT 2
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
```

```

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match      100.0%; Score 18; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 CTCGGTGAACGGCACC 18
        |||
DB 3087911 CTCGGTGAACGGCACC 3087894

RESULT 3
US-08-557-139-13/c
; Sequence 13, Application US/08557139
; Patent No. 5827730
; GENERAL INFORMATION:
; APPLICANT: Pedersen, Oluf
; APPLICANT: Bjorbak, Christian
; APPLICANT: Frederiksen, Kathrine A.
; TITLE OF INVENTION: MUTANT DNA ENCODING INSULIN RECEPTOR
; TITLE OF INVENTION: SUBSTRATE 1
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESS: No. 58277300 No. 5827730disk of No. 5827730th America
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/557,139
; FILING DATE: 12-FEB-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4041.204-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 867-0123
; TELEFAX: (212) 878-9655
; INFORMATION FOR SEQ ID NO: 13:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 24 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-557-139-13

Query Match      82.2%; Score 14.8; DB 1; Length 24;
Best Local Similarity 88.9%; Pred. No. 41;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 CTCGGTGAACGGCACC 18
        |||
DB      19 CTCGGTGAACGGCACC 2

RESULT 4
US-08-557-139-1
; Sequence 1, Application US/08557139
; Patent No. 5827730
```

```

; GENERAL INFORMATION:
; APPLICANT: Pedersen, Oluf
; APPLICANT: Bjorbak, Christian
; APPLICANT: Frederiksen, Kathrine A.
; TITLE OF INVENTION: MUTANT DNA ENCODING INSULIN RECEPTOR
; TITLE OF INVENTION: SUBSTRATE 1
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESS: No. 58277300 No. 5827730disk of No. 5827730th America
; STREET: 405 Lexington Avenue
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10174
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/557,139
; FILING DATE: 12-FEB-1996
; CLASSIFICATION: 800
; ATTORNEY/AGENT INFORMATION:
; NAME: Lambiris, Elias J.
; REGISTRATION NUMBER: 33,728
; REFERENCE/DOCKET NUMBER: 4041.204-US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 867-0123
; TELEFAX: (212) 878-9655
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6152 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 561..4309
US-08-557-139-1

Query Match      82.2%; Score 14.8; DB 1; Length 6152;
Best Local Similarity 88.9%; Pred. No. 55;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 CTCGGTGAACGGCACC 18
        |||
DB 1603 CTCGGTGAACGGCACC 1620

RESULT 5
US-08-402-282-3/c
; Sequence 3, Application US/08402282
; Patent No. 5476768
; GENERAL INFORMATION:
; APPLICANT: Pearson, Robert E.
; APPLICANT: Dickson, Julie A.
; APPLICANT: Hamilton, Paul T.
; APPLICANT: Little, Michael C.
; APPLICANT: Beyer Jr., Wayne F.
; TITLE OF INVENTION: MYCOBACTERIOPHAGE SPECIFIC FOR THE
; TITLE OF INVENTION: MYCOBACTERIUM TUBERCULOSIS COMPLEX
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
```

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/402,282
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fugit, Donna R.
REGISTRATION NUMBER: 32,135
REFERENCE/DOCKET NUMBER: P-3283
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 15664 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 222..425
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 451..747
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 747..1109
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1109..2014
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2034..2747
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2747..3109
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3109..3444
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3444..3728
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3731..4855
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 4855..5376
OTHER INFORMATION: /function= "potential coding
OTHER INFORMATION: sequence"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5382..5747

OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5837..6307
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 6403..7770
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 7770..8006
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8033..8236
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8244..9443
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 9450..10244
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 10371..10586
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11115..11786
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11917..12741
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 12748..14499
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 14771..15154
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 15154..15426
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 15429..15664
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
US-08-402-282-3

Query Match 82.2% Score 14.8; DB 1; Length 15664;
Best Local Similarity 88.9%; Pred. No. 58;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGCTGACGCGACCCC 18
Db 7859 CTCGCTGACGCGACGCC 7842

RESULT 6
US-08-508-004-3/c
Sequence 3, Application US/08508004
Patent No. 5582969
GENERAL INFORMATION:
APPLICANT: Pearson, Robert E.
APPLICANT: Dickson, Julie A.
APPLICANT: Hamilton, Paul T.
APPLICANT: Little, Michael C.
APPLICANT: Beyer Jr., Wayne F.
TITLE OF INVENTION: MYCOBACTERIOPHAGE SPECIFIC FOR THE
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
ADDRESS: Company
STREET: 1 Becton Drive
CITY: Franklin Lakes
STATE: NJ
COUNTRY: US
ZIP: 07417
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/508,004
FILING DATE: 27-JUL-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/402,282
FILING DATE: 10-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Fugit, Donna R.
REGISTRATION NUMBER: 32,135
REFERENCE/DOCKET NUMBER: P-3283
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 15664 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 222..425
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 451..747
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 747..1109
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1109..2014
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2034..2747
OTHER INFORMATION: /function= "potential open reading

OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2747..3109
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3109..3444
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3444..3728
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3731..4855
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 4855..5376
OTHER INFORMATION: /function= "potential coding
OTHER INFORMATION: sequence"
OTHER INFORMATION: /product= "L5 gp37 homolog"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5382..5747
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5837..6307
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 6403..7770
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 7770..8006
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8033..8236
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8244..9443
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 9450..10244
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 10371..10586
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11115..11786
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:

NAME/KEY: misc_feature
LOCATION: 11917..12741
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 12748..14499
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 14771..15154
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 15154..15426
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 15429..15664
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
US-08-508-004-3

Query Match 82.2% Score 14.8; DB 1; Length 15664;
Best Local Similarity 88.9%; Pred No. 58;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 CTCGCTGACGCCACCC 18
11111111111111111111
DB 7859 CTCGCTGACGCCACCC 7842

RESULT 7
US-08-402-066-3/c
Sequence 3, Application US/08402066
Patent No. 5612182
GENERAL INFORMATION:
APPLICANT: Pearson, Robert E.
APPLICANT: Dickson, Julie A.
APPLICANT: Hamilton, Paul T.
APPLICANT: Little, Michael C.
APPLICANT: Beyer Jr., Wayne F.
TITLE OF INVENTION: MYCOBACTERIOPHAGE SPECIFIC FOR THE
TITLE OF INVENTION: MYCOBACTERIUM TUBERCULOSIS COMPLEX
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
ADDRESSEE: Company
STREET: 1 Becton Drive
CITY: Franklin Lakes
STATE: NJ
COUNTRY: US
ZIP: 07417
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/402,066
FILING DATE:
CLASSIFICATION: 436
ATTORNEY/AGENT INFORMATION:
NAME: Fugit, Donna R.
REGISTRATION NUMBER: 32,135
REFERENCE/DOCKET NUMBER: P-3283
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 15664 base pairs
TYPE: nucleic acid

STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 222..425
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 451..747
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 747..1109
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1109..2014
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2034..2747
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2747..3109
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3109..3444
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3444..3728
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3731..4855
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 4855..5376
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5382..5747
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5837..6307
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 6403..7770
OTHER INFORMATION: /function="potential open reading"
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 7770..8006
OTHER INFORMATION: /function="potential open reading"

OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8033..8236
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8244..9443
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 9450..10244
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 10371..10586
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11115..11786
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11917..12741
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 12748..14499
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 14771..15154
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 15154..15426
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 15429..15664
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
US-08-402-066-3
Query Match 82.2%; Score 14.8; DB 1; Length 15664;
Best Local Similarity 88.9%; Pred. No. 58;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 1 CTCGGTGAACGGCACCC 18
11111111111111111111
Db 7859 CTCGGTGAACGGCACCC 7842

RESULT 8
US-08-402-068-3/C
Sequence 3, Application US/08402068
Patent No. 5633159
GENERAL INFORMATION:
APPLICANT: Pearson, Robert E.
APPLICANT: Dickson, Julie A.
APPLICANT: Hamilton, Paul T.
APPLICANT: Little, Michael C.
APPLICANT: Beyer Jr., Wayne F.
TITLE OF INVENTION: MYCOBACTERIOPHAGE SPECIFIC FOR THE

TITLE OF INVENTION: MYCOBACTERIUM TUBERCULOSIS COMPLEX
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
ADDRESSEE: Company
STREET: 1 Becton Drive
CITY: Franklin Lakes
STATE: NJ
COUNTRY: US
ZIP: 07417
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/402,068
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Fugitt, Donna R.
REGISTRATION NUMBER: 32,135
REFERENCE/DOCKET NUMBER: P-3283
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 15664 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 222..425
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 451..747
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 747..1109
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1109..2014
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2034..2747
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 2747..3109
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3109..3444
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3444..3728
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3731..4855

```

OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 4855..5376
OTHER INFORMATION: /function= "potential coding
OTHER INFORMATION: sequence"
OTHER INFORMATION: /product= "L5 gp37 homolog"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5382..5747
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 5837..6307
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 6403..7770
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 7770..8006
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8033..8236
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 9450..10244
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8244..9443
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 10371..10586
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11115..11786
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 11917..12741
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 12748..14499
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 14771..15154
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
FEATURE:
NAME/KEY: misc_feature
LOCATION: 15154..15426
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"

```

```

FEATURE:
NAME/KEY: misc_feature
LOCATION: 15429..15664
OTHER INFORMATION: /function= "potential open reading
OTHER INFORMATION: frame"
US-08-402-068-3

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 1; Length 15664;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CTCGTGACGCGACCC 18
||||| ||||| ||
Db 7859 CTCGTGACGCGACCC 7842

RESULT 9
US-09-103-840A-2
Sequence 2, Application US/09103840A
Patent No. 6294328
GENERAL INFORMATION:
APPLICANT: FLEISCHMAN, Robert D.
APPLICANT: WHITE, Owen R.
APPLICANT: FRASER, Claire M.
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
FILE REFERENCE: 24366-20007.00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: Patentl Ver. 2.1
SEQ ID NO 2
LENGTH: 4403765
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
FEATURE:
OTHER INFORMATION: CDC 1551
OTHER INFORMATION: "n" bases at various positions throughout the sequence
OTHER INFORMATION: repeat a, t, c or g
US-09-103-840A-2

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 4; Length 4403765;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TCGGTGACGCGACCC 18
||||| ||||| ||
Db 3199915 TCGGTGACGCGACCC 3199941

RESULT 10
US-09-221-017B-853/C
Sequence 853, Application US/09221017B
Patent No. 6444799
GENERAL INFORMATION:
APPLICANT: ROSS, Bruce C.
TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 1120
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FORSTER
STREET: 755 PAGE MILL ROAD
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221,017B

```

```

1      FILING DATE: 17-MAY-1996
2      CLASSIFICATION: 514
3      ATTORNEY/AGENT INFORMATION:
4      NAME: Petersen Mr., Steven C.
5      REGISTRATION NUMBER: 36,238
6      REFERENCE/DOCKET NUMBER: 17060.1
7      TELECOMMUNICATION INFORMATION:
8      TELEPHONE: 303/546-1300
9      TELEFAX: 303/449-5426
10     TELEX: ABA1475
11     INFORMATION FOR SEQ ID NO: 119:
12     SEQUENCE CHARACTERISTICS:
13     LENGTH: 345 base pairs
14     TYPE: nucleic acid
15     STRANDEDNESS: single
16     TOPOLOGY: linear
17     MOLECULE TYPE: DNA (gen. ic)
18     HYPOTHEetical: NO
19     ANTI-SENSE: YES
20     US-08-651-155B-119
21
22     Query Match          77.8%; Score 14; DB 4; Length 345;
23     Best Local Similarity 100.0%; Pred. No. 1.2e+02;
24     Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
25
26     QY      2   TCGGTGAACGGCAC 15
27              |||||
28     Db      217  TCGGTGAACGGCAC 230
29
30 RESULT 12
31 US-09-072-596-336/C
32 Sequence 336, Application US/09072596
33 Patent No. 6458566
34 GENERAL INFORMATION:
35 APPLICANT: Reed, Steven G.
36 APPLICANT: Skeiky, Yasir A.W.
37 APPLICANT: Dillon, Davin C.
38 APPLICANT: Campos-Neto, Antonia
39 APPLICANT: Houghton, Raymond
40 APPLICANT: Vedyick, Thomas S.
41 APPLICANT: Twardzik, Daniel R.
42 APPLICANT: Lodes, Michael J.
43 APPLICANT: Hendrickson, Ronald C.
44 TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
45 TUBERCULOSIS
46 NUMBER OF SEQUENCES: 350
47 CORRESPONDENCE ADDRESS:
48 ADDRESSEE: SEED AND BEERY LLP
49 STREET: 6400 Columbia Center, 701 Fifth Avenue
50 CITY: Seattle
51 STATE: Washington
52 COUNTRY: USA
53 ZIP: 98104-7092
54 COMPUTER READABLE FORM:
55 MEDIUM TYPE: Floppy disk
56 COMPUTER: IBM PC compatible
57 OPERATING SYSTEM: PC-DOS/MS-DOS
58 SOFTWARE: Patent In Release #1.0, Version #1.30
59 CURRENT APPLICATION DATA:
60 APPLICATION NUMBER: US/09/072.596
61 FILING DATE: 05-MAY-1998
62 CLASSIFICATION:
63 ATTORNEY/AGENT INFORMATION:
64 NAME: Makl, David J.
65 REGISTRATION NUMBER: 31,392
66 REFERENCE/DOCKET NUMBER: 210121.417C9
67 TELECOMMUNICATION INFORMATION:
68 TELEPHONE: (206) 622-4900
69 TELEFAX: (206) 682-6031
70 INFORMATION FOR SEQ ID NO: 336:
71 SEQUENCE CHARACTERISTICS:
72 LENGTH: 1195 base pairs
73 TYPE: nucleic acid

```


	Matches	15;	Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;
Qy	1	CTCGGTGACGGCACCC	17							
Db	39	CTCGGTGACGGCACCC	23							

Search completed: February 18, 2003, 00:28:17
Job time : 2972.22 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 : Search time 96.2091 Seconds
(Without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-18

Perfect score: 1 CTCGGTACAGCGACCCC 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 25461826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCT_NEM_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEM_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEM_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEM_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEM_PUB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US10_NEM_PUB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_NEM_PUB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	15	83.3	2631	9	US-09-712-363-97
C 2	14.8	82.2	151	10	US-09-864-761-20949
C 3	14.8	82.2	208	9	US-09-796-692-6427
C 4	14.8	82.2	416	9	US-10-015-219-603
C 5	14.8	82.2	416	10	US-09-777-564-603
C 6	14.8	82.2	435	9	US-09-796-692-6201
C 7	14.8	82.2	448	9	US-09-796-692-6814
C 8	14.8	82.2	449	9	US-09-796-692-6585
C 9	14.8	82.2	451	10	US-09-864-761-4115
C 10	14.8	82.2	452	10	US-09-833-381-801
C 11	14.8	82.2	603	10	US-09-833-381-1025
C 12	14.8	82.2	5828	10	US-09-903-248-6
C 13	14.8	82.2	5828	10	US-09-859-604-6
C 14	14.8	82.2	5828	10	US-09-903-063-6
C 15	14.8	82.2	5828	10	US-09-903-216-6
C 16	14.8	82.2	5828	10	US-09-903-199-6
C 17	14.8	82.2	5828	10	US-09-880-107-3021
C 18	14.8	82.2	5828	10	US-09-903-1023-6
C 19	14.8	82.2	45845	10	US-09-927-091-6

C 20	14.8	82.2	49744	10	US-09-927-091-4	Sequence 4, Appl
C 21	14.4	80.0	1017	9	US-09-738-626-751	Sequence 751, App
C 22	13.8	76.7	396	9	US-09-970-966-15	Sequence 15, Appl
C 23	13.8	76.7	396	10	US-09-825-294-15	Sequence 15, Appl
C 24	13.8	76.7	532	10	US-09-833-381-910	Sequence 910, App
C 25	13.8	76.7	555	10	US-09-924-035A-412	Sequence 412, App
C 26	13.8	76.7	554	9	US-09-738-626-1455	Sequence 1455, Ap
C 27	13.8	76.7	1104	10	US-09-741-669-164	Sequence 164, App
C 28	13.8	76.7	1107	9	US-09-938-842A-1090	Sequence 1090, Ap
C 29	13.8	76.7	1125	10	US-09-833-555-25	Sequence 25, Appl
C 30	13.8	76.7	1344	10	US-09-815-242-7614	Sequence 7614, Ap
C 31	13.8	76.7	1407	9	US-09-989-442-31	Sequence 31, Appl
C 32	13.8	76.7	1931	10	US-09-921-232-10	Sequence 10, Appl
C 33	13.8	76.7	1931	10	US-09-921-330-10	Sequence 10, Appl
C 34	13.8	76.7	1931	10	US-09-921-329-10	Sequence 10, Appl
C 35	13.8	76.7	1931	10	US-09-727-628-1	Sequence 1, Appl
C 36	13.8	76.7	3165	10	US-09-822-849A-481	Sequence 481, App
C 37	13.8	76.7	3195	9	US-10-098-841-29	Sequence 29, Appl
C 38	13.8	76.7	3546	10	US-09-921-232-14	Sequence 14, Appl
C 39	13.8	76.7	3546	10	US-09-921-232-15	Sequence 15, Appl
C 40	13.8	76.7	3546	10	US-09-921-330-14	Sequence 14, Appl
C 41	13.8	76.7	3546	10	US-09-921-330-15	Sequence 15, Appl
C 42	13.8	76.7	3546	10	US-09-921-329-14	Sequence 14, Appl
C 43	13.8	76.7	3546	10	US-09-921-329-15	Sequence 15, Appl
C 44	13.8	76.7	3786	10	US-09-815-242-7865	Sequence 7865, Ap
C 45	13.8	76.7	7419	10	US-09-815-242-4009	Sequence 4009, Ap

ALIGNMENTS

RESULT 1
US-09-712-363-97/c
Sequence 97, Application US/09712363
Patent No. US20020164588A1
GENERAL INFORMATION:
APPLICANT: Eisenberg, David
APPLICANT: Rotstein, Sergio H.
APPLICANT: Marcotte, Edward M.
TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
FILE REFERENCE: 07419-032001
CURRENT APPLICATION NUMBER: US/09/712, 363
PRIOR FILING DATE: 2000-11-13
PRIOR APPLICATION NUMBER: PCT/US00/02246
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: 60/179, 531
PRIOR FILING DATE: 2000-02-01
PRIOR APPLICATION NUMBER: 60/117, 844
PRIOR FILING DATE: 1999-01-29
PRIOR APPLICATION NUMBER: 60/118, 206,
PRIOR FILING DATE: 1999-02-01
PRIOR APPLICATION NUMBER: 60/126, 593
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: 60/134, 093
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/134, 092
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/165, 124
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/165, 086
PRIOR FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 292
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 97
LENGTH: 2631
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
US-09-712-363-97
Query Match 83.3%, Score 15, DB 9, Length 2631;
Best Local Similarity 100.0%, Pred. No. 39;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTCGGTGAACGGCACC 16
|||||
Db 1547 CTCGGTGAACGGCACC 1533

```
RESULT 2
US-09-864-761-20949
; Sequence 20949, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Cl...n, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Acomica X-1
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEO ID NOS: 49117
; SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
; SEO ID NO 20949
; LENGTH: 151
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL031003.1
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.9
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2.6
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.7
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.8
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.2
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.9
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.9
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 4
```

```
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3
; OTHER INFORMATION: EST_HUMAN HIT: A718662.1, EVALUATE 1.00e-07
; OTHER INFORMATION: NT HIT: AF044206.1, EVALUATE 3.00e-07
; OTHER INFORMATION: SWISSPROT HIT: P15325, EVALUATE 8.70e+00
US-09-864-761-20949
```

Query Match 82.2% Score 14.8; DB 10; Length 151;
Best Local Similarity 88.9%; Pred. No. 44;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCACC 18
|||||
Db 44 CTCGGTGAATGACGCC 61

```
RESULT 3
US-09-796-692-6427/c
; Sequence 6427, Application US/09796692
; Publication No. US20020198362A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THER
; TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
; FILE REFERENCE: 2077.001200
; CURRENT APPLICATION NUMBER: US/09/796,692
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 60/200,303
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/200,779
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/222,903
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 60/223,416
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 60/223,378
; PRIOR FILING DATE: 2000-08-07
; NUMBER OF SEO ID NOS: 9597
; SOFTWARE: FastSeq for Windows Version 3.0
; SEO ID NO 6427
; LENGTH: 208
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-796-692-6427
```

Query Match 82.2% Score 14.8; DB 9; Length 208;
Best Local Similarity 88.9%; Pred. No. 44;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCACC 18
|||||
Db 182 CTCGTGACGGCACC 165

```
RESULT 4
US-10-015-219-603/c
; Sequence 603, Application US/10015219
; Publication No. US20030008299A1
```

```

: GENERAL INFORMATION:
: APPLICANT: Algate, Paul A.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
: FILE REFERENCE: 210121.493c1
: CURRENT APPLICATION NUMBER: US/10/015,219
: CURRENT FILING DATE: 2002-03-02
: NUMBER OF SEQ ID NOS: 1739
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 603
: LENGTH: 416
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: 320..407, 415
: OTHER INFORMATION: n = A,T,C or G
: US-10-015-219-603

```

Query Match	82.2%	Score	14.8	DB	9	Length	416
Best Local Similarity	88.9%	Pred. No.	46				
Matches	16	Conservative	0	Mismatches	2	In :els	0
						Gaps	0

oy 1 CTCGGTGAACGGCACC CC 18
 ||| ||| ||| ||| ||| |||
 Db 121 CTCGTGCACGGCACC CC 104

```

RESULT 5
US-09-777-564-603/C
: Sequence 603. Application US/09777564
: Patent No. US20020022591A1
: GENERAL INFORMATION:
: APPLICANT: Algatec, Paul A.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: TITLE OF INVENTION: AND DIAGNOSIS OF OVARIAN CANCER
: FILE REFERENCE: 210121.493
: CURRENT FILING DATE: 2001-02-05
: CURRENT OF SEQ ID NOS: 1730
: SOFTWARE: FASTSEQ for Window Version 4.0
: SEQ ID NO 603
: LENGTH: 416
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(416)
: OTHER INFORMATION: n = A,T,C or G
US-09-777-564-603

```

Query Match	82.28;	Score 14.8;	DB 10;	Length 416;
Best Local Similarity	88.98;	Pred. No. 46;		
Matches 16; Conservative	0;	Mismatches 2;	Indels 0;	Gaps 0

```

Oy      1 CTCGGTGAACGGCACCCC 18
         ||| ||| ||| ||| |||
Db     121 CTCGTGCACGGCACCCC 104

```

RESULT 6
US-09-796-692-6201/c
: Sequence 6201, Application US/09796692
: Publication No. US20020198362A1
: GENERAL INFORMATION:
: APPLICANT: Galger, Alexander
: APPLICANT: Aligate, Paul A.
: APPLICANT: Mannion, Jane
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
: TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
: FILE REFERENCE: 2077.001200
: CURRENT APPLICATION NUMBER: US/09/796,692

```

1  CURRENT FILLING DATE: 2001-03-01
2  PRIOR APPLICATION NUMBER: 60/7186,126
3  PRIOR FILLING DATE: 2000-03-01
4  PRIOR APPLICATION NUMBER: 60/190,479
5  PRIOR FILLING DATE: 2000-03-17
6  PRIOR APPLICATION NUMBER: 60/200,545
7  PRIOR FILLING DATE: 2000-04-27
8  PRIOR APPLICATION NUMBER: 60/200,303
9  PRIOR FILLING DATE: 2000-04-28
10 PRIOR APPLICATION NUMBER: 60/200,779
11 PRIOR FILLING DATE: 2000-04-28
12 PRIOR APPLICATION NUMBER: 60/200,999
13 PRIOR FILLING DATE: 2000-05-01
14 PRIOR APPLICATION NUMBER: 60/202,084
15 PRIOR FILLING DATE: 2000-05-04
16 PRIOR APPLICATION NUMBER: 60/206,201
17 PRIOR FILLING DATE: 2000-05-22
18 PRIOR APPLICATION NUMBER: 60/218,950
19 PRIOR FILLING DATE: 2000-07-14
20 PRIOR APPLICATION NUMBER: 60/222,903
21 PRIOR FILLING DATE: 2000-08-03
22 PRIOR APPLICATION NUMBER: 60/223,416
23 PRIOR FILLING DATE: 2000-08-04
24 PRIOR APPLICATION NUMBER: 60/223,378
25 PRIOR FILLING DATE: 2000-08-07
26 NUMBER OF SEQ ID NOS: 9597
27 SOFTWARE: FastSeq for Windows Version 3.0
28 SEQ ID NO 6201
29 LENGTH: 435
30 TYPE: DNA
31 ORGANISM: Homo sapiens
32 OS-09-796-692-6201

```

Query Match	82.2%;	Score 14.8;	DB 9;	Length 435;
Best Local Similarity	88.9%;	Pred. No. 46;		
Matches 16;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0

QY 1 CTCGGTGAACGGCACCCC 18
111 111 1111111111
Db 182 CTCGTGCACGGCACCCC 165

```

RESULT 7
US-09-796-692-6814/c
: Sequence 6814, Application US/09796692
: Publication No. US20020198362A1
: GENERAL INFORMATION:
: APPLICANT: Galtier, Alexander
: APPLICANT: Albate, Paul A.
: APPLICANT: Munnion, Jane
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THER
: TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
: FILE REFERENCE: 2077.001200
: CURRENT APPLICATION NUMBER: US/09/796,692
: PRIOR FILING DATE: 2001-03-01
: PRIOR APPLICATION NUMBER: 60/186,126
: PRIOR FILING DATE: 2000-03-01
: PRIOR APPLICATION NUMBER: 60/190,479
: PRIOR FILING DATE: 2000-03-17
: PRIOR APPLICATION NUMBER: 60/200,545
: PRIOR FILING DATE: 2000-04-27
: PRIOR APPLICATION NUMBER: 60/200,303
: PRIOR FILING DATE: 2000-04-28
: PRIOR APPLICATION NUMBER: 60/200,779
: PRIOR FILING DATE: 2000-04-28
: PRIOR APPLICATION NUMBER: 60/200,999
: PRIOR FILING DATE: 2000-05-01
: PRIOR APPLICATION NUMBER: 60/202,084
: PRIOR FILING DATE: 2000-05-04
: PRIOR APPLICATION NUMBER: 60/206,201
: PRIOR FILING DATE: 2000-05-22
: PRIOR APPLICATION NUMBER: 60/218,950
: PRIOR FILING DATE: 2000-07-14

```

```

; PRIOR APPLICATION NUMBER: 60/222,903
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 60/223,416
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 60/223,378
; PRIOR FILING DATE: 2000-08-07
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6814
; LENGTH: 448
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-796-692-6814

Query Match      82.2%; Score 14.8; DB 9; Length 448;
Best Local Similarity 88.9%; Pred. No. 46;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy      1 CTCGGTGAAGCGCACCCC 18
        ||| ||| ||| ||| ||| |||
Db      182 CTCGTGACGCGCACCCC 165

RESULT 8
US-09-796-692-6585
; Sequence 6585, Application US/09796692
; Publication No. US20020198362a1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
; FILE REFERENCE: 2077,001200
; CURRENT APPLICATION NUMBER: US/09/796,692
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/222,903
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 60/223,416
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 60/223,378
; PRIOR FILING DATE: 2000-08-07
; NUMBER OF SEQ ID NOS: 9597
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6585
; LENGTH: 449
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)
; OTHER INFORMATION: n=A,T,C or G
US-09-796-692-6585

Query Match      82.2%; Score 14.8; DI. 9; Length 449;

Best Local Similarity 88.9%; Pred. No. 46;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy      1 CTCGGTGAAGCGCACCCC 18
        ||| ||| ||| ||| ||| |||
Db      268 CTCGTGACGCGCACCCC 285

RESULT 9
US-09-864-761-4195
; Sequence 4195, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FO
; FILE REFERENCE: Aeonica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263,6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/214,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 4195
; LENGTH: 451
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AL031003.1
; OTHER INFORMATION: EXPRESSED IN HBL100, SIGNAL = 2.9
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.4
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 2.6
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.7
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.8
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 3.2
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.9
```

OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 3
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3
US-09-864-761-4195

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 451;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCAGCC 18
DB 350 CTCGGTGAATGCGACCC 367

RESULT 10
US-09-833-381-802
Sequence 802, Application US/09833381
Patent No. US20020132090A1
GENERAL INFORMATION:
APPLICANT: Robison, Keith E.
TITLE OF INVENTION: No. US20020132090A1el Nucleic Acid and Protein Homologs
FILE REFERENCE: 5800-119
CURRENT APPLICATION NUMBER: US/09/833,381
CURRENT FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: 09/516,448
PRIOR FILING DATE: 2000-02-29
NUMBER OF SEQ ID NOS: 2050
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 802
LENGTH: 452
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(452)
OTHER INFORMATION: n = A,T,C or G
US-09-833-381-802

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 452;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCAGCC 18
DB 254 CACGGTGAAGGCGACCC 271

RESULT 11
US-09-833-381-1025
Sequence 1025, Application US/09833381
Patent No. US20020132090A1
GENERAL INFORMATION:
APPLICANT: Robison, Keith E.
TITLE OF INVENTION: No. US20020132090A1el Nucleic Acid and Protein Homologs
FILE REFERENCE: 5800-119
CURRENT APPLICATION NUMBER: US/09/833,381
CURRENT FILING DATE: 2001-04-11
PRIOR APPLICATION NUMBER: 09/516,448
PRIOR FILING DATE: 2000-02-29
NUMBER OF SEQ ID NOS: 2050
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1025
LENGTH: 603
TYPE: DNA
ORGANISM: Homo sapiens
US-09-833-381-1025

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 603;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCAGCC 18
DB 254 CACGGTGAAGGCGACCC 271

DB 436 CTCGGTGAACGGCAGCC 453

RESULT 12
US-09-903-248-6
Sequence 6, Application US/09903248
Patent No. US20020102263A1
GENERAL INFORMATION:
APPLICANT: Wands, Jack R.
APPLICANT: de la Monte, Suzanne M.
APPLICANT: Ince, Nedim
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
FILE REFERENCE: 21486-032 DIV5
CURRENT APPLICATION NUMBER: US/09/903,248
CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: 09/436,184
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 9
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 5828
TYPE: RNA
ORGANISM: Homo sapiens
US-09-903-248-6

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 5828;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCAGCC 18
DB 2040 CTCGGTGAACGGCAGCC 2057

RESULT 13
US-09-859-604-6
Sequence 6, Application US/09859604
Patent No. US20020110559A1
GENERAL INFORMATION:
APPLICANT: Wands, Jack R.
APPLICANT: de la Monte, Suzanne M.
APPLICANT: Ghandari, Hossein A.
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
FILE REFERENCE: 21486-032 CIP
CURRENT APPLICATION NUMBER: US/09/859,604
CURRENT FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: 09/436,184
PRIOR FILING DATE: 1999-11-08
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 6
LENGTH: 5828
TYPE: DNA
ORGANISM: Homo sapiens
US-09-859-604-6

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 5828;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCAGCC 18
DB 2040 CTCGGTGAACGGCAGCC 2057

RESULT 14
US-09-903-063-6
Sequence 6, Application US/09903063
Patent No. US20020114810A1
GENERAL INFORMATION:
APPLICANT: Wands, Jack R.

```
: APPLICANT: de la Monte, Suzanne M.
: APPLICANT: Ince, Nedim
: APPLICANT: Carlson, Rolf I.
: TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
: FILE REFERENCE: 21486-032 DIV3
: CURRENT APPLICATION NUMBER: US/09/903,063
: CURRENT FILING DATE: 2001-10-11
: PRIOR APPLICATION NUMBER: 09/436,184
: PRIOR FILING DATE: 1999-11-08
: NUMBER OF SEQ ID NOS: 9
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 6
: LENGTH: 5828
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-903-063-6

Query Match      82.2%; Score 14.8; DB 10; Length 5828;
Best Local Similarity 88.9%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCACC 18
    ||||| ||||| ||
Db 2040 CTCGGTGACGCGACGCC 2057

RESULT 15
US-09-903-216-6
: Sequence 6, Application US/09903216
: Patent No. US20020114811A1
: GENERAL INFORMATION:
: APPLICANT: Wands, Jack R.
: APPLICANT: de la Monte, Suzanne M.
: APPLICANT: Ince, Nedim
: APPLICANT: Carlson, Rolf I.
: TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF MALIGNANT NEOPLASMS
: FILE REFERENCE: 21486-032 DIV2
: CURRENT APPLICATION NUMBER: US/09/903,216
: CURRENT FILING DATE: 2001-07-11
: PRIOR APPLICATION NUMBER: 09/436,184
: PRIOR FILING DATE: 1999-11-08
: NUMBER OF SEQ ID NOS: 9
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 6
: LENGTH: 5828
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-903-216-6

Query Match      82.2%; Score 14.8; DB 10; Length 5828;
Best Local Similarity 88.9%; Pred. No. 52;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 CTCGGTGAACGGCACC 18
    ||||| ||||| ||
Db 2040 CTCGGTGACGCGACGCC 2057
```

Search completed: February 18, 2003, 07:09:27
Job time : 98.2091 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 : Search time 26.216 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-19

Perfect score: 18

Sequence: 1 GGCCAGCAGCGCTGGCGG 18

Scoring table: IDENTITY_NUC

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	18	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
C 2	18	100.0	4411529	4 US-09-103-840A-1	Sequence 1, Appli
C 3	15.4	85.6	2484	4 US-09-276-531-46	Sequence 46, Appl
C 4	15	83.3	5816	4 US-09-220-641-4	Sequence 46, Appl
C 5	14.8	82.2	39	2 US-08-190-199A-28	Sequence 28, Appl
C 6	14.8	82.2	294	4 US-09-132-316-43	Sequence 43, Appl
C 7	14.8	82.2	764	4 US-09-235-451-21	Sequence 21, Appl
C 8	14.8	82.2	2380	4 US-09-235-451-35	Sequence 35, Appl
C 9	14.8	82.2	2682	1 US-07-855-793-3	Sequence 3, Appli
C 10	14.8	82.2	2805	4 US-09-132-316-1	Sequence 1, Appli
C 11	14.8	82.2	2860	4 US-09-149-476-314	Sequence 314, Appl
C 12	14.8	82.2	4403765	4 US-09-103-840A-2	Sequence 2, Appli
C 13	14.4	80.0	187	4 US-09-060-756-349	Sequence 349, App
C 14	14.4	80.0	378	4 US-09-060-756-207	Sequence 207, App
C 15	14.4	80.0	811	4 US-09-056-556-199	Sequence 199, App
C 16	14.4	80.0	811	4 US-09-072-596-194	Sequence 194, App
C 17	14.4	80.0	908	4 US-08-991-789A-46	Sequence 46, Appl
C 18	14.4	80.0	908	4 US-09-062-451-46	Sequence 46, Appl
C 19	14.4	80.0	908	4 US-09-598-326-46	Sequence 46, Appl
C 20	14.4	80.0	1135	4 US-09-065-104-2	Sequence 2, Appli
C 21	14.4	80.0	1426	2 US-08-284-465-2	Sequence 2, Appli
C 22	14.4	80.0	1426	2 US-08-284-465-7	Sequence 7, Appli
C 23	14.4	80.0	2471	1 US-08-920-812-14	Sequence 14, Appl
C 24	14.4	80.0	2471	1 US-08-920-827-14	Sequence 14, Appl
C 25	14.4	80.0	2471	1 US-08-921-177-14	Sequence 14, Appl
C 26	14.4	80.0	2471	1 US-08-362-577C-14	Sequence 14, Appl
C 27	14.4	80.0	2471	2 US-08-920-828-14	Sequence 14, Appl

C 28	14.4	80.0	2629	4 US-09-392-184-17	Sequence 17, Appl
C 29	14.4	80.0	3807	2 US-08-816-755-1	Sequence 1, Appli
C 30	14.4	80.0	3807	4 US-08-090-673-1	Sequence 1, Appli
C 31	14.4	80.0	3000	1 US-08-125-468-1	Sequence 1, Appli
C 32	14.4	80.0	3000	1 US-08-474-933-1	Sequence 1, Appli
C 33	14	77.8	2007	3 US-08-941-445A-8	Sequence 8, Appli
C 34	14	77.8	2085	1 US-08-572-951-2	Sequence 2, Appli
C 35	14	77.8	5894	3 US-08-665-259-24	Sequence 24, Appl
C 36	14	77.8	5894	3 US-08-762-500-24	Sequence 24, Appl
C 37	14	77.8	6525	3 US-08-762-500-74	Sequence 74, Appl
C 38	13.8	76.7	160	4 US-08-990-623-74	Sequence 74, Appl
C 39	13.8	76.7	268	1 US-08-105-168B-1	Sequence 1, Appli
C 40	13.8	76.7	268	1 US-08-105-168B-2	Sequence 1, Appli
C 41	13.8	76.7	268	1 US-08-105-168B-3	Sequence 3, Appli
C 42	13.8	76.7	268	1 US-08-105-168B-4	Sequence 4, Appli
C 43	13.8	76.7	268	2 US-08-698-948-1	Sequence 1, Appli
C 44	13.8	76.7	268	2 US-08-698-948-2	Sequence 2, Appli
C 45	13.8	76.7	268	2 US-08-698-948-3	Sequence 3, Appli

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007-00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      100.0%   Score 18;   DB 4;   Length 4403765;
Best local Similarity 100.0%;   Pred. No. 5.1;
Matches 18;   Conservation 0;   Mismatches 0;   Indels 0;   Gaps 0;

QY      1 GGCCAGCAGCGCTGGCGG 18
Db 3082612 GGCCAGCAGCGCTGGCGG 3082595

RESULT 2
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007-00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
```

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37RV
US-09-103-840A-1

Query Match 100.0%; Score 18; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCACGACGCTGGCGG 18
Db 3087929 GGCACGACGCTGGCGG 3087912

RESULT 3
US-09-276-531-46
Sequence 46, Application US/09276531
Patent No. 6183968

GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Yue, Henry
APPLICANT: Reddy, Roopa
APPLICANT: Guejter, Karl J.
APPLICANT: Baugim, Mariah R.
TITLE OF INVENTION: RECEPTORS AND PROTEINS ASSOCIATED WITH CELL PROLIFERATION
NUMBER OF SEQUENCES: 134
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/276,531
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/079,677
FILING DATE: March 27, 1998

ATTORNEY/AGENT INFORMATION:
NAME: Lynn E. Murry, Ph.D.
REGISTRATION NUMBER: 42,918
REFERENCE/DOCKET NUMBER: PA-0008 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 46:
SEQUENCE CHARACTERISTICS:
LENGTH: 2484 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: SYNORAT05
CLONE: 1262948
US-09-276-531-46

Query Match 85.6%; Score 15.4; DB 4; Length 2484;
Best Local Similarity 94.1%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GGCACGACGCTGGCGG 17
Db 552 GGCACGACGCTGGCGG 568

RESULT 4
US-09-220-641-4
Sequence 4, Application US/09220641
Patent No. 6210923

GENERAL INFORMATION:
APPLICANT: Lee, Cheng-Chi
APPLICANT: Sun, Zhong Sheng
APPLICANT: Albrecht, Urs
APPLICANT: Eichele, Gregor
TITLE OF INVENTION: Mammalian Circadian Regulator M-RIGU12 (M-PER2)
FILE REFERENCE: D6067
CURRENT APPLICATION NUMBER: US/09/220,641
CURRENT FILING DATE: 1998-12-24
EARLIER APPLICATION NUMBER: US 60/068,886
EARLIER FILING DATE: 1997-12-26
NUMBER OF SEQ ID NOS: 5
SEQ ID NO 4
LENGTH: 5816
TYPE: DNA
ORGANISM: Mus musculus
FEATURE:
NAME/KEY: CDS
LOCATION: 145..3918
OTHER INFORMATION: m-rigu12 cDNA sequence
US-09-220-641-4

Query Match 83.3%; Score 15; DB 4; Length 5816;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCACGACGCTGGCG 15
Db 531 GGCACGACGCTGGCG 545

RESULT 5
US-08-190-199A-28
Sequence 28, Application US/08190199A
Patent No. 5830663

GENERAL INFORMATION:
APPLICANT: EMBLETON, Michael J.
APPLICANT: GOROCHOV, Guy
APPLICANT: JONES, Peter T.
APPLICANT: WINTER, Gregory P.
TITLE OF INVENTION: TREATMENT OF CELL POPULATIONS
NUMBER OF SEQUENCES: 70
CORRESPONDENCE ADDRESS:
ADDRESSEE: PILLSBURY MADISON & SUTRO, L.L.P.
STREET: 1100 New York Avenue, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3918

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/190,199A
FILING DATE: 13-JUL-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/GB92/01483
FILING DATE: 10-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: GB 9212419.7

```
;; FILING DATE: 11-JUN-1992
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: GB 9117352.6
;; FILING DATE: 10-AUG-1991
;; INFORMATION FOR SEQ ID NO: 28:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 39 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
;; HYPOTHEetical: NO
;; ANTI-SENSE: NO
US-08-190-199A-28

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 2; Length 39;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGCACGACGCTGGCGGG 18
    ||||| ||||| |||
DB 12 GGCAGTACGCTGAGAG 29

RESULT 6
US-09-132-316-43/C
; Sequence 43, Application US/09132316B
; Patent No. 6444440
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488,1110000
; CURRENT APPLICATION NUMBER: US/09/132,316B
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: US 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 43
; LENGTH: 294
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-132-316-43

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 4; Length 294;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGCACGACGCTGGCGGG 18
    ||||| ||||| |||||
DB 98 GGCCTGACGCTGCGCG 81

RESULT 7
US-09-235-451-21/C
; Sequence 21, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084C1P
; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
```

```
;; NUMBER OF SEQ ID NOS: 48
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 21
;; LENGTH: 764
;; TYPE: DNA
;; ORGANISM: H. sapiens
;; FEATURE:
;; NAME/KEY: CDS
;; LOCATION: (3)...(519)
US-09-235-451-21

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 4; Length 764;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGCACGACGCTGGCGGG 18
    ||||| ||||| |||||
DB 98 GGCCTGACGCTGCGCG 81

RESULT 8
US-09-235-451-35/C
; Sequence 35, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084C1P
; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (19)...(2313)
; OTHER INFORMATION: Human VR2
US-09-235-451-35

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 4; Length 2380;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGCACGACGCTGGCGGG 18
    ||||| ||||| |||||
DB 738 GGCCTGACGCTGCGCG 721

RESULT 9
US-07-855-793-3
; Sequence 3, Application US/07855793
; Patent No. 5217880
; GENERAL INFORMATION:
; APPLICANT: Masanori MITTA et al.
; TITLE OF INVENTION: L-FUCOSE DEHYDROGENASE GENE,
; TITLE OF INVENTION: MICROORGANISM HAVING SAID GENE AND PRODUCTION OF L-FUCOSE
; TITLE OF INVENTION: DEHYDROGENASE BY THE USE OF SAID MICROORGANISM
; NUMBER OF SEQUENCES: 5
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Wenderoth, Lind & Ponack
; STREET: 805 Fifteenth Street, N.W., #700
; CITY: Washington
; STATE: D.C.
```

COUNTRY: U.S.A.
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 500 Kb
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: DisplayWrite
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/855,793
FILING DATE: 19920323
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warren M. Cheek Jr.
REGISTRATION NUMBER: 33,367
REFERENCE/DOCKET NUMBER:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-8850
TELEFAX:
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2682 Base Pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
HYPOTHETICAL:
ANTI-SENSE:
FRAGMENT TYPE:
ORIGINAL SOURCE:
ORGANISM: Arthrobacter Oxidans
STRAIN:
INDIVIDUAL ISOLATE:
DEVELOPMENTAL STAGE:
HAPLOTYPE:
TISSUE TYPE:
CELL TYPE:
ORGANELLE:
IMMEDIATE SOURCE:
LIBRARY:
CLONE:
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
MAP POSITION:
UNITS:
FEATURE: (A) NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION: /note= "844-1809 E CDS"
PUBLICATION INFORMATION:
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
ISSUE:
PAGES:
DATE:
DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
US-07-855-793-3

Query Match 82.2%: Score 14.8; DB 1; Length 2682;
Best Local Similarity 88.9%: Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

1 GGCAGCAGCGTGGCGG 18
|||||

Db 167 GGCCTGCACGCTGGCTGG 184

RESULT 10
US-09-132-316-1/c
Sequence 1, Application US/09132316B
Patent No. 6444440
GENERAL INFORMATION:
APPLICANT: Young, Paul E.
APPLICANT: Ruben, Steven M.
TITLE OF INVENTION: Vanilloid Receptor-2
FILE REFERENCE: 1488,1110000
CURRENT APPLICATION NUMBER: US/09/132,316B
CURRENT FILING DATE: 1998-08-11
EARLIER APPLICATION NUMBER: US 60/040,163
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: PCT/US98/04493
EARLIER FILING DATE: 1998-01-06
NUMBER OF SEQ ID NOS: 67
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1
LENGTH: 2805
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: (5)..(2674)
US-09-132-316-1

Query Match 82.2%: Score 14.8; DB 4; Length 2805;
Best Local Similarity 88.9%: Pred. No. 1.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

1 GGCAGCAGCGTGGCGG 18
|||||

Db 1102 GGCCTGCACGCTGGCGG 1085

RESULT 11
US-09-149-476-314/c
Sequence 314, Application US/09149476
Patent No. 6420526
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 186 Human Secreted proteins
FILE REFERENCE: P2002P1
CURRENT APPLICATION NUMBER: US/09/149,476
CURRENT FILING DATE: 1998-09-08
EARLIER APPLICATION NUMBER: PCT/US98/04493
EARLIER FILING DATE: 1998-01-06
EARLIER APPLICATION NUMBER: 60/040,162
EARLIER FILING DATE: 1997-04-07
EARLIER APPLICATION NUMBER: 60/040,334
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/038,621
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,626
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,334
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,336
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/040,163
EARLIER FILING DATE: 1997-03-07
EARLIER APPLICATION NUMBER: 60/047,600
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,615
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,597
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,502
EARLIER FILING DATE: 1997-05-23
EARLIER APPLICATION NUMBER: 60/047,633

1	EARLIER	FILING DATE:	1997-05-23
2	EARLIER	APPLICATION NUMBER:	60/047,583
3	EARLIER	FILING DATE:	1997-05-23
4	EARLIER	APPLICATION NUMBER:	60/047,617
5	EARLIER	FILING DATE:	1997-05-23
6	EARLIER	APPLICATION NUMBER:	60/047,618
7	EARLIER	FILING DATE:	1997-05-23
8	EARLIER	APPLICATION NUMBER:	60/047,503
9	EARLIER	FILING DATE:	1997-05-23
10	EARLIER	APPLICATION NUMBER:	60/047,592
11	EARLIER	FILING DATE:	1997-05-23
12	EARLIER	APPLICATION NUMBER:	60/047,581
13	EARLIER	FILING DATE:	1997-05-23
14	EARLIER	APPLICATION NUMBER:	60/047,492
15	EARLIER	FILING DATE:	1997-05-23
16	EARLIER	APPLICATION NUMBER:	60/047,598
17	EARLIER	FILING DATE:	1997-05-23
18	EARLIER	APPLICATION NUMBER:	60/047,613
19	EARLIER	FILING DATE:	1997-05-23
20	EARLIER	APPLICATION NUMBER:	60/047,582
21	EARLIER	FILING DATE:	1997-05-23
22	EARLIER	APPLICATION NUMBER:	60/047,596
23	EARLIER	FILING DATE:	1997-05-23
24	EARLIER	APPLICATION NUMBER:	60/047,612
25	EARLIER	FILING DATE:	1997-05-23
26	EARLIER	APPLICATION NUMBER:	60/047,632
27	EARLIER	FILING DATE:	1997-05-23
28	EARLIER	APPLICATION NUMBER:	60/047,601
29	EARLIER	FILING DATE:	1997-05-23
30	EARLIER	APPLICATION NUMBER:	60/043,580
31	EARLIER	FILING DATE:	1997-04-11
32	EARLIER	APPLICATION NUMBER:	60/043,568
33	EARLIER	FILING DATE:	1997-04-11
34	EARLIER	APPLICATION NUMBER:	60/043,314
35	EARLIER	FILING DATE:	1997-04-11
36	EARLIER	APPLICATION NUMBER:	60/043,569
37	EARLIER	FILING DATE:	1997-04-11
38	EARLIER	APPLICATION NUMBER:	60/043,311
39	EARLIER	FILING DATE:	1997-04-11
40	EARLIER	APPLICATION NUMBER:	60/043,671
41	EARLIER	FILING DATE:	1997-04-11
42	EARLIER	APPLICATION NUMBER:	60/043,674
43	EARLIER	FILING DATE:	1997-04-11
44	EARLIER	APPLICATION NUMBER:	60/043,669
45	EARLIER	FILING DATE:	1997-04-11
46	EARLIER	APPLICATION NUMBER:	60/043,312
47	EARLIER	FILING DATE:	1997-04-11
48	EARLIER	APPLICATION NUMBER:	60/043,313
49	EARLIER	FILING DATE:	1997-04-11
50	EARLIER	APPLICATION NUMBER:	60/043,672
51	EARLIER	FILING DATE:	1997-04-11
52	EARLIER	APPLICATION NUMBER:	60/043,315
53	EARLIER	FILING DATE:	1997-04-11
54	EARLIER	APPLICATION NUMBER:	60/048,974
55	EARLIER	FILING DATE:	1997-06-06
56	EARLIER	APPLICATION NUMBER:	60/056,886
57	EARLIER	FILING DATE:	1997-08-22
58	EARLIER	APPLICATION NUMBER:	60/056,877
59	EARLIER	FILING DATE:	1997-08-22
60	EARLIER	APPLICATION NUMBER:	60/056,889
61	EARLIER	FILING DATE:	1997-08-22
62	EARLIER	APPLICATION NUMBER:	60/056,893
63	EARLIER	FILING DATE:	1997-08-22
64	EARLIER	APPLICATION NUMBER:	60/056,630
65	EARLIER	FILING DATE:	1997-08-22
66	EARLIER	APPLICATION NUMBER:	60/056,878
67	EARLIER	FILING DATE:	1997-08-22

1	EARLIER APPLICATION NUMBER: 60/056,662
2	EARLIER FILING DATE: 1997-08-22
3	EARLIER APPLICATION NUMBER: 60/056,872
4	EARLIER FILING DATE: 1997-08-22
5	EARLIER APPLICATION NUMBER: 60/056,882
6	EARLIER FILING DATE: 1997-08-22
7	EARLIER APPLICATION NUMBER: 60/056,637
8	EARLIER FILING DATE: 1997-08-22
9	EARLIER APPLICATION NUMBER: 60/056,903
10	EARLIER FILING DATE: 1997-08-22
11	EARLIER APPLICATION NUMBER: 60/056,888
12	EARLIER FILING DATE: 1997-08-22
13	EARLIER APPLICATION NUMBER: 60/056,879
14	EARLIER FILING DATE: 1997-08-22
15	EARLIER APPLICATION NUMBER: 60/056,880
16	EARLIER FILING DATE: 1997-08-22
17	EARLIER APPLICATION NUMBER: 60/056,894
18	EARLIER FILING DATE: 1997-08-22
19	EARLIER APPLICATION NUMBER: 60/056,911
20	EARLIER FILING DATE: 1997-08-22
21	EARLIER APPLICATION NUMBER: 60/056,636
22	EARLIER FILING DATE: 1997-08-22
23	EARLIER APPLICATION NUMBER: 60/056,864
24	EARLIER FILING DATE: 1997-08-22
25	EARLIER APPLICATION NUMBER: 60/056,631
26	EARLIER FILING DATE: 1997-08-22
27	EARLIER APPLICATION NUMBER: 60/056,845
28	EARLIER FILING DATE: 1997-08-22
29	EARLIER APPLICATION NUMBER: 60/056,892
30	EARLIER FILING DATE: 1997-08-22
31	EARLIER APPLICATION NUMBER: 60/057,761
32	EARLIER FILING DATE: 1997-08-22
33	EARLIER APPLICATION NUMBER: 60/047,595
34	EARLIER FILING DATE: 1997-05-23
35	EARLIER APPLICATION NUMBER: 60/047,599
36	EARLIER FILING DATE: 1997-05-23
37	EARLIER APPLICATION NUMBER: 60/047,588
38	EARLIER FILING DATE: 1997-05-23
39	EARLIER APPLICATION NUMBER: 60/047,585
40	EARLIER FILING DATE: 1997-05-23
41	EARLIER APPLICATION NUMBER: 60/047,586
42	EARLIER FILING DATE: 1997-05-23
43	EARLIER APPLICATION NUMBER: 60/047,590
44	EARLIER FILING DATE: 1997-05-23
45	EARLIER APPLICATION NUMBER: 60/047,594
46	EARLIER FILING DATE: 1997-05-23
47	EARLIER APPLICATION NUMBER: 60/047,589
48	EARLIER FILING DATE: 1997-05-23
49	EARLIER APPLICATION NUMBER: 60/047,593
50	EARLIER FILING DATE: 1997-05-23
51	EARLIER APPLICATION NUMBER: 60/047,614
52	EARLIER FILING DATE: 1997-05-23
53	EARLIER APPLICATION NUMBER: 60/043,578
54	EARLIER FILING DATE: 1997-04-11
55	EARLIER APPLICATION NUMBER: 60/043,576
56	EARLIER FILING DATE: 1997-04-11
57	EARLIER APPLICATION NUMBER: 60/047,501
58	EARLIER FILING DATE: 1997-05-23
59	EARLIER APPLICATION NUMBER: 60/044,670
60	EARLIER FILING DATE: 1997-04-11
61	EARLIER APPLICATION NUMBER: 60/056,632
62	EARLIER FILING DATE: 1997-08-22
63	EARLIER APPLICATION NUMBER: 60/056,664
64	EARLIER FILING DATE: 1997-08-22
65	EARLIER APPLICATION NUMBER: 60/056,876
66	EARLIER FILING DATE: 1997-08-22
67	EARLIER APPLICATION NUMBER: 60/056,881
68	EARLIER FILING DATE: 1997-08-22
69	EARLIER APPLICATION NUMBER: 60/056,909
70	EARLIER FILING DATE: 1997-08-22

```
;; EARLIER FILING DATE: 1997-08-22
;; EARLIER APPLICATION NUMBER: 60/056,875
;; EARLIER FILING DATE: 1997-08-22
;; EARLIER APPLICATION NUMBER: 60/056,862
;; EARLIER FILING DATE: 1997-08-22
;; EARLIER APPLICATION NUMBER: 60/056,887
;; EARLIER FILING DATE: 1997-08-22
;; EARLIER APPLICATION NUMBER: 60/056,908
;; EARLIER FILING DATE: 1997-08-22
;; EARLIER APPLICATION NUMBER: 60/048,964
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/057,650
;; EARLIER FILING DATE: 1997-09-05
;; EARLIER APPLICATION NUMBER: 60/056,884
;; EARLIER FILING DATE: 1997-08-22
;; EARLIER APPLICATION NUMBER: 60/057,669
;; EARLIER FILING DATE: 1997-09-05
;; EARLIER APPLICATION NUMBER: 60/049,610
;; EARLIER FILING DATE: 1997-06-13
;; EARLIER APPLICATION NUMBER: 60/061,060
;; EARLIER FILING DATE: 1997-10-02
```

```
Query Match      82.2%; Score 14.8; DB 4; Length 2860;
Best Local Similarity 88.9%; Pred. No. 1.8e+01;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
OY      1  GCGCAGCAGCTGGCGG 18
         ||| ||| ||| ||| ||| |||
Db      1144 GCGCTGCAGCGTGGCGG 1127
```

```
RESULT 12
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2
```

```
Query Match      82.2%; Score 14.8; DB 4; Length 4403765;
Best Local Similarity 94.1%; Pred. No. 61;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1  GCGCAGCAGCTGGCGG 17
         ||| ||| ||| ||| ||| |||
Db      1634596 GCGCAGCAGCTGGTGG 1634612
```

```
RESULT 13
US-09-060-756-349
; Sequence 349, Application US/09060756
; Patent No. 6183957
; GENERAL INFORMATION:
; APPLICANT: Cole, Stewart
; APPLICANT: Buchrieser-Brosch, Roland
```

```
;; APPLICANT: Gordon, Stephen
;; APPLICANT: Billault, Alain
;; TITLE OF INVENTION: METHOD FOR ISOLATING A POLYNUCLEOTIDE OF INTEREST FROM
;; TITLE OF INVENTION: THE GENOME OF A MYCOBACTERIUM USING A BAC-BASED DNA
;; TITLE OF INVENTION: LIBRARY APPLICATION TO THE DETECTION OF MYCOBACTERIA
;; FILE REFERENCE: 3495-0169
;; CURRENT APPLICATION NUMBER: US/09/060,756
;; CURRENT FILING DATE: 1998-04-16
;; NUMBER OF SEQ ID NOS: 743
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 349
;; LENGTH: 187
;; TYPE: DNA
;; ORGANISM: Mycobacterium tuberculosis
US-09-060-756-349
```

```
Query Match      80.0%; Score 14.4; DB 4; Length 187;
Best Local Similarity 93.8%; Pred. No. 2.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1  GCGCAGCAGCTGGCGG 16
         ||| ||| ||| ||| ||| |||
Db      164  GCGCAGCAGCTGGCGG 179
```

```
RESULT 14
US-09-060-756-207
; Sequence 207, Application US/09060756
; Patent No. 6183957
; GENERAL INFORMATION:
; APPLICANT: Cole, Stewart
; APPLICANT: Buchrieser-Brosch, Roland
; APPLICANT: Gordon, Stephen
; APPLICANT: Billault, Alain
; TITLE OF INVENTION: METHOD FOR ISOLATING A POLYNUCLEOTIDE OF INTEREST FROM
; TITLE OF INVENTION: THE GENOME OF A MYCOBACTERIUM USING A BAC-BASED DNA
; TITLE OF INVENTION: LIBRARY APPLICATION TO THE DETECTION OF MYCOBACTERIA
; FILE REFERENCE: 3495-0169
; CURRENT APPLICATION NUMBER: US/09/060,756
; CURRENT FILING DATE: 1998-04-16
; NUMBER OF SEQ ID NOS: 743
; SOFTWARE: Patent n Ver. 2.0
; SEQ ID NO 207
; LENGTH: 378
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (various positions within the sequence)
; OTHER INFORMATION: applicants are uncertain of bases designated as "n"
US-09-060-756-207
```

```
Query Match      80.0%; Score 14.4; DB 4; Length 378;
Best Local Similarity 93.8%; Pred. No. 2.9e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      2  GCGCAGCAGCTGGCGG 17
         ||| ||| ||| ||| ||| |||
Db      104  GCGCAGCAGCTGGCGG 119
```

```
RESULT 15
US-09-056-556-19/c
; Sequence 199, Application US/09056556
; Patent No. 6350456
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Skelky, Yasir A.W.
; APPLICANT: Dillon, David C.
; TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
; NUMBER OF SEQUENCES: 241
; CORRESPONDENCE ADDRESS:
; ADDRESS: SEED and BERRY LLP
```

STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 199:
SEQUENCE CHARACTERISTICS:
LENGTH: 811 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-199

Query Match 80.0%; Score 14.4; DB 4; Length 811;
Best Local Similarity 93.8%; Pred. No. 2.8e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 GGCACGACGCGCTGCG 16
||||| |||||
Db 389 GGCACGACGCGCTGCG 374

Search completed: February 18, 2003, 01:15:25
Job time : 2854.22 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 96.2091 Seconds
(Without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-19

Perfect score: 18

Sequence: 1 GCGCAGCAGCCCTGGCGG 18

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 424239 seqs, 25461826 residues 848478

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PC1_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PC1S_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US01_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	16	88.9	1434	10	US-09-815-242-9783 Sequence 9783, Ap
2	15.4	85.6	230	9	US-09-736-457-1282 Sequence 1282, Ap
3	15.4	85.6	230	9	US-09-902-941-1282 Sequence 1282, Ap
4	15.4	85.6	230	9	US-09-849-626-1282 Sequence 1282, Ap
5	15.4	85.6	909	10	US-09-815-242-6372 Sequence 6372, Ap
6	15.4	85.6	1212	10	US-09-826-508-29 Sequence 29, Appl
7	15.4	85.6	1515	10	US-09-895-686-11 Sequence 31, Appl
8	15.4	85.6	3852	10	US-09-826-508-31 Sequence 31, Appl
9	15	83.3	972	10	US-09-815-242-6224 Sequence 6224, Ap
10	15	83.3	1416	10	US-09-934-868-29 Sequence 9, Appl
11	15	83.3	1416	10	US-09-934-868-29 Sequence 29, Appl
12	14.8	82.2	379	9	US-10-137-316-43 Sequence 43, Appl
13	14.8	82.2	379	9	US-09-878-574-1883 Sequence 1883, Ap
14	14.8	82.2	426	10	US-09-983-965-3881 Sequence 3881, Ap
15	14.8	82.2	434	10	US-09-764-877-881 Sequence 881, App
16	14.8	82.2	549	10	US-09-864-761-9059 Sequence 9059, App
17	14.8	82.2	550	10	US-09-864-761-12744 Sequence 12744, A
18	14.8	82.2	553	9	US-10-040-739-1361 Sequence 1361, Ap
19	14.8	82.2	860	10	US-09-764-877-3926 Sequence 3926, Ap

20	14.8	82.2	996	10	US-09-735-169A-6 Sequence 6, Appl
21	14.8	82.2	996	10	US-09-735-171A-6 Sequence 6, Appl
22	14.8	82.2	1076	10	US-09-867-550-2041 Sequence 2041, Ap
23	14.8	82.2	1455	10	US-09-887-576-782 Sequence 782, App
24	14.8	82.2	1575	10	US-09-735-169A-4 Sequence 4, Appl
25	14.8	82.2	1575	10	US-09-735-171A-4 Sequence 4, Appl
26	14.8	82.2	2187	9	US-09-894-844-9 Sequence 9, Appl
27	14.8	82.2	2805	9	US-10-137-316-1 Sequence 1, Appl
28	14.8	82.2	3820	10	US-09-764-864-11 Sequence 11, Appl
29	14.8	82.2	4970	10	US-09-764-860-1018 Sequence 1018, Ap
30	14.8	82.2	18385	10	US-09-764-869-1892 Sequence 1892, Ap
31	14.8	82.2	23130	10	US-09-815-343-582 Sequence 582, App
32	14.4	80.0	115	10	US-09-815-343-582 Sequence 7246, Ap
33	14.4	80.0	201	9	US-09-796-692-7246 Sequence 236, App
34	14.4	80.0	214	10	US-09-815-343-236 Sequence 9148, App
35	14.4	80.0	283	10	US-09-783-590-1487 Sequence 1487, Ap
36	14.4	80.0	287	10	US-09-783-590-1487 Sequence 857, App
37	14.4	80.0	358	10	US-09-815-343-857 Sequence 325, App
38	14.4	80.0	389	9	US-09-933-797-325 Sequence 146, App
39	14.4	80.0	399	9	US-09-933-797-146 Sequence 579, App
40	14.4	80.0	455	10	US-09-815-343-579 Sequence 110, App
41	14.4	80.0	471	9	US-10-202-193-110 Sequence 367, App
42	14.4	80.0	475	9	US-09-933-797-367 Sequence 244, App
43	14.4	80.0	483	9	US-10-202-193-244 Sequence 198, App
44	14.4	80.0	498	9	US-10-202-193-198 Sequence 206, App
45	14.4	80.0	501	9	US-09-933-797-206

ALIGNMENTS

RESULT 1
US-09-815-242-9783
Sequence 9783, Application US/09815242
Patent No. US20020061569A1
GENERAL INFORMATION:
APPLICANT: Haselbeck, Robert
APPLICANT: Ohlsen, Karl H.
APPLICANT: Zyskind, Judith W.
APPLICANT: Wall, Daniel
APPLICANT: Trawick, John D.
APPLICANT: Carr, Grant J.
APPLICANT: Yamamoto, Robert T.
TITLE OF INVENTION: Identification of Essential Genes In
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-04-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-04-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9783
LENGTH: 1434
TYPE: DNA
ORGANISM: Salmonella typhi
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(1434)
US-09-815-242-9783

Query Match 88.9%; Score 16; DB 10; Length 1434;
Best Local Similarity 100.0%; Pred. No. 73;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 GCCGACGACGCTGGCGG 17
Db 655 GCCGACGACGCTGGCGG 670

RESULT 2

US-09-736-457-1282
; Sequence 1282, Application US/09736457
; Patent No. US20020168637A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tonglong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvik, Tom
; APPLICANT: Carter, Darlick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Pan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1282
; LENGTH: 230
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(230)
; OTHER INFORMATION: n = A,T,C or G
US-09-736-457-1282

Query Match 85.6%; Score 15.4; DB 9; Length 230;
Best Local Similarity 94.1%; Pred. No. 16e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCCGACGACGCTGGCGG 17
Db 117 GCCGACGACGCTGGCGG 133

RESULT 3

US-09-902-941-1282
; Sequence 1282, Application US/09902941
; Patent No. US20020172952A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tonglong
; APPLICANT: Watanabe, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Mai erakis, Margarita
; APPLICANT: Carter, Darlick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvik, Thomas S.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: McNabb, Andria
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; TITLE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C17
; CURRENT APPLICATION NUMBER: US/09/902,941
; CURRENT FILING DATE: 2001-07-10
; NUMBER OF SEQ ID NOS: 2002

; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1282
; LENGTH: 230
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 194
; OTHER INFORMATION: n = A,T,C or G
US-09-902-941-1282

Query Match 85.6%; Score 15.4; DB 9; Length 230;
Best Local Similarity 94.1%; Pred. No. 16e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCCGACGACGCTGGCGG 17
Db 117 GCCGACGACGCTGGCGG 133

RESULT 4

US-09-849-626-1282
; Sequence 1282, Application US/09849626
; Publication No. US20020197669A1
; GENERAL INFORMATION:
; APPLICANT: Bangur, Chaitanya
; APPLICANT: Fanger, Gary
; APPLICANT: Wang, Aijun
; APPLICANT: Wang, Tonglong
; APPLICANT: Switzer, Anne
; APPLICANT: McNeill, Patricia
; APPLICANT: Clapper, Jonathan
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C16
; CURRENT APPLICATION NUMBER: US/09/849,626
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 1926
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1282
; LENGTH: 230
; TYPE: DNA
; ORGANISM: Homo sapien
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(230)
; OTHER INFORMATION: n = A,T,C or G
US-09-849-626-1282

Query Match 85.6%; Score 15.4; DB 9; Length 230;
Best Local Similarity 94.1%; Pred. No. 16e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCCGACGACGCTGGCGG 17
Db 117 GCCGACGACGCTGGCGG 133

RESULT 5

US-09-815-242-6372/C
; Sequence 6372, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes

```
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6372
; LENGTH: 909
; TYPE: DNA
; ORGANISM: Escherichia coli
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(909)
US-09-815-242-6372
```

```
Query Match      85.6%; Score 15.4; DB 10; Length 909;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGGCAGCAGCGCTGGCGG 17
        ||||| ||||| ||||| |||
Db      609 GGGCAGCAGCGCTGGCGG 593
```

```
RESULT 6
US-09-826-508-29
; Sequence 29, Application US/09826508
; Patent No. US20010025099A1
; GENERAL INFORMATION:
; APPLICANT: Nabil Elshourbagy
; APPLICANT: Lisa Vawter
; TITLE OF INVENTION: G Protein-Coupled Receptor Polypeptides
; TITLE OF INVENTION: and Polynucleotides
; FILE REFERENCE: GP-70744USB
; CURRENT APPLICATION NUMBER: US/09/826,508
; CURRENT FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 29
; LENGTH: 1212
; TYPE: DNA
; ORGANISM: HOMO SAPIENS
US-09-826-508-29
```

```
Query Match      85.6%; Score 15.4; DB 10; Length 1212;
Best Local Similarity 94.1%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGGCAGCAGCGCTGGCGG 17
        ||||| ||||| ||||| |||
Db      816 GGGCAGCAGCGCTGGCGG 832
```

```
RESULT 7
US-09-895-686-11
; Sequence 11, Application US/09895686
; Patent No. US2002010655A1
; GENERAL INFORMATION:
; APPLICANT: Bandman, Olga
; APPLICANT: Lai, Preeti
```

```
; APPLICANT: Tang, Y. Tom
; APPLICANT: Baughn, Mariah R.
; TITLE OF INVENTION: HUMAN GPCR PROTEINS
; FILE REFERENCE: PC-0044 CIP
; CURRENT APPLICATION NUMBER: US/09/895,686
; CURRENT FILING DATE: 2001-06-28
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: PERL Program
; SEQ ID NO 11
; LENGTH: 1515
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; OTHER INFORMATION: Incyte ID No. US2002010655A1 2705201CB1
US-09-895-686-11
```

```
Query Match      85.6%; Score 15.4; DB 10; Length 1515;
Best Local Similarity 94.1%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGGCAGCAGCGCTGGCGG 17
        ||||| ||||| ||||| |||
Db      862 GGGCAGCAGCGCTGGCGG 878
```

```
RESULT 8
US-09-826-508-31
; Sequence 31, Application US/09826508
; Patent No. US20010025099A1
; GENERAL INFORMATION:
; APPLICANT: Nabil Elshourbagy
; APPLICANT: Lisa Vawter
; TITLE OF INVENTION: G Protein-Coupled Receptor Polypeptides
; TITLE OF INVENTION: and Polynucleotides
; FILE REFERENCE: GP-70744USB
; CURRENT APPLICATION NUMBER: US/09/826,508
; CURRENT FILING DATE: 2001-04-05
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 3852
; TYPE: DNA
; ORGANISM: HOMO SAPIENS
; FEATURE:
; NAME/KEY: UNSURE
; LOCATION: (7)(3091)(3552)
US-09-826-508-31
```

```
Query Match      85.6%; Score 15.4; DB 10; Length 3852;
Best Local Similarity 94.1%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 GGGCAGCAGCGCTGGCGG 17
        ||||| ||||| ||||| |||
Db      889 GGGCAGCAGCGCTGGCGG 905
```

```
RESULT 9
US-09-815-242-6224/C
; Sequence 6224, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
```

```
; FILE REFERENCE: ELITRA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,578
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/257,931
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,308
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6224
; LENGTH: 972
; TYPE: DNA
; ORGANISM: Escherichia coli
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(972)
US-09-815-242-6224

Query Match      83.3%; Score 15; DB 10; Length 972;
Best Local Similarity 100.0%; Pred. No. 2.1e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 CCAGCAGCGCTGGCG 17
DB      331 CCAGCAGCGCTGGCG 317

RESULT 10
US-09-934-899-9/C
; Sequence 9, Application US/09934899
; Patent No. US20020102697A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Siqun
; APPLICANT: Wang, Tao
; APPLICANT: Koffas, Mattheos
; APPLICANT: Odom, J. Martin
; APPLICANT: Ye, Rick
; TITLE OF INVENTION: Genes encoding exopolysaccharide production
; FILE REFERENCE: CL1633 US NA
; CURRENT APPLICATION NUMBER: US/09/934,899
; CURRENT FILING DATE: 2001-08-22
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 9
; LENGTH: 1416
; TYPE: DNA
; ORGANISM: Methylobionas 16a
US-09-934-899-9

Query Match      83.3%; Score 15; DB 10; Length 1416;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGCACGACGCTGGC 15
DB      621 GGCACGACGCTGGC 607

RESULT 11
US-09-934-868-29/C
; Sequence 29, Application US/09934868
; Patent No. US20020137190A1
; GENERAL INFORMATION:
```

```
; APPLICANT: Koffas, Mattheos
; APPLICANT: Odom, James M
; APPLICANT: Schenzle, Andreas J
; TITLE OF INVENTION: DENITRIFYING METHANOTROPHIC BACTERIAL STRAIN
; FILE REFERENCE: CL1596 US NA
; CURRENT APPLICATION NUMBER: US/09/934,868
; CURRENT FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/229,858
; PRIOR FILING DATE: 2000-09-01
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 29
; LENGTH: 1416
; TYPE: DNA
; ORGANISM: Methylobionas 16a
US-09-934-868-29

Query Match      83.3%; Score 15; DB 10; Length 1416;
Best Local Similarity 100.0%; Pred. No. 2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGCACGACGCTGGC 15
DB      621 GGCACGACGCTGGC 607

RESULT 12
US-10-137-316-43/C
; Sequence 43, Application US/10137316
; Publication No. US2003002289A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110002
; CURRENT APPLICATION NUMBER: US/10/137,316
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 09/132,316
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: Paten' In Ver. 3.1
; SEQ ID NO 43
; LENGTH: 294
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-137-316-43

Query Match      82.2%; Score 14.8; DB 9; Length 294;
Best Local Similarity 88.9%; Pred. No. 2.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGCACGACGCTGGC 18
DB      98 GGCCTGCAGCCTGGCG 81

RESULT 13
US-09-878-574-1883/C
; Sequence 1883, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/333,535
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 1883
```

LENGTH: 379
TYPE: DNA
ORGANISM: Glycine max
OTHER INFORMATION: Clone ID: LIB3028-031-Q1-B1-G10
US-09-878-574-1883

Query Match 82.2%; Score 14.8; DB 10; Length 379;
Best Local Similarity 88.9%; Pred. No. 2.8e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GGCCAGCAGCTGGCGG 18
||||| |||||
DB 141 GGCCATCATGCTGGCGG 124

RESULT 14

US-09-983-965-3881/C
Sequence 3881, Application US/09983965
Patent No. US20020137160A1
GENERAL INFORMATION:
APPLICANT: Warren, Wesley C.
APPLICANT: Tao, Mengbing
APPLICANT: Byatt, John C.
APPLICANT: Mathalagan, Nagappan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
FILE REFERENCE: 37-21(10297)C
CURRENT APPLICATION NUMBER: US/09/983,965
CURRENT FILING DATE: 2001-10-26
PRIOR APPLICATION NUMBER: US 09/465,231
PRIOR FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: US 60/113,678
PRIOR FILING DATE: 1998-12-17
NUMBER OF SEQ ID NOS: 5912
SEQ ID NO 3881
LENGTH: 426
TYPE: DNA
ORGANISM: Bos taurus
FEATURE:
OTHER INFORMATION: Clone ID: 50-LIB3058-003-Q1-K1-E6
US-09-983-965-3881

Query Match 82.2%; Score 14.8; DB 10; Length 426;
Best Local Similarity 88.9%; Pred. No. 2.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GGCCAGCAGCTGGCGG 18
||||| |||||
DB 236 GGCCAGCGCGCGCGG 219

RESULT 15

US-09-764-877-881
Sequence 881, Application US/09764877
Patent No. US20020147140A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC005
CURRENT APPLICATION NUMBER: US/09/764,877
CURRENT FILING DATE: 2001-01-17
Prior application data removed - refer to PALM or file wrapper
NUMBER OF SEQ ID NOS: 4031
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 881
LENGTH: 434
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (361)
OTHER INFORMATION: n equals a,t,g, or c
US-09-764-877-881

Query Match 82.2%; Score 14.8; DB 10; Length 434;
Best Local Similarity 81.9%; Pred. No. 2.7e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GGCCAGCAGCTGGCGG 18
||||| |||||
DB 77 GGCCAGCAGCTGGCGG 94

Search completed: February 18, 2003, 07:09:27
Job time : 96.2091 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 26.216 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-20

Perfect score: 18
Sequence: 1 CACCCGTCGACACTAA 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 982724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/lna/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/lna/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/lna/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/lna/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/lna/PCUTUS.COMB.seq:*
6: /cgn2_6/ptodata/2/lna/ackfile1.seq:*

Pred. No. is the number of results predicted, by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
2	18	100.0	4411529	4 US-09-103-840A-1	Sequence 1, Appli
3	14.8	82.2	1986	4 US-08-687-590-57	Sequence 57, Appli
4	13.8	76.7	1972	1 US-08-276-887A-12	Sequence 12, Appli
5	13.8	76.7	1364	4 US-09-095-855-204	Sequence 204, App
6	13.8	76.7	1364	4 US-09-205-426-204	Sequence 204, App
7	13.8	76.7	3635	4 US-08-553-436A-5	Sequence 5, Appli
8	13.4	74.4	60	1 US-08-470-958-12	Sequence 12, Appli
9	13.4	74.4	360	1 US-08-321-474-10	Sequence 10, Appli
10	13.4	74.4	1182	6 5198345-23	Patent No. 5198345
11	13.4	74.4	1662	6 5198345-20	Patent No. 5198345
12	13.4	74.4	2854	4 US-08-971-089-3	Sequence 3, Appli
13	13.4	74.4	2915	1 US-07-746-705A-16	Sequence 16, Appli
14	13.4	74.4	2915	2 US-08-380-182-18	Sequence 18, Appli
15	13.4	74.4	3377	6 5198345-16	Patent No. 5198345
16	13.4	74.4	6611	1 US-08-402-282-2	Sequence 2, Appli
17	13.4	74.4	6611	1 US-08-508-004-2	Sequence 2, Appli
18	13.4	74.4	6611	1 US-08-402-066-2	Sequence 2, Appli
19	13.4	74.4	6611	1 US-08-402-066-2	Sequence 2, Appli
20	13.4	74.4	4403765	4 US-09-103-840A-2	Sequence 2, Appli
21	13.2	73.3	661	4 US-09-605-785-624	Sequence 624, App
22	13.2	73.3	661	4 US-09-276-599-12	Sequence 12, App
23	13.2	73.3	3025	1 US-08-444-734A-1	Sequence 1, Appli
24	13.2	73.3	4214	4 US-09-221-017B-293	Sequence 293, App
25	13.2	73.3	6360	4 US-09-171-699-9	Sequence 9, Appli
26	13.2	73.3	6412	4 US-08-652-877-17	Sequence 17, Appli
27	13.2	73.3	6412	4 US-08-476-515A-17	Sequence 17, Appli

28	13.2	73.3	28720	4 US-09-341-587-7	Sequence 7, Appli
29	13	72.2	1245	2 US-09-337-913-2	Sequence 2, Appli
30	13	72.2	1245	2 US-08-750-524-2	Sequence 2, Appli
31	12.8	71.1	582	4 US-09-222-938A-72	Sequence 72, Appli
32	12.8	71.1	1058	4 US-08-818-112-45	Sequence 45, Appli
33	12.8	71.1	1058	4 US-08-818-111-45	Sequence 45, Appli
34	12.8	71.1	1058	4 US-09-056-556-45	Sequence 45, Appli
35	12.8	71.1	1058	4 US-09-072-556-45	Sequence 45, Appli
36	12.8	71.1	1407	4 US-09-193-377B-2	Sequence 2, Appli
37	12.8	71.1	1420	4 US-09-193-377B-4	Sequence 4, Appli
38	12.8	71.1	1428	4 US-09-193-377B-1	Sequence 1, Appli
39	12.8	71.1	1500	4 US-09-193-377B-3	Sequence 3, Appli
40	12.8	71.1	1789	1 US-08-455-543A-29	Sequence 29, Appli
41	12.8	71.1	1789	2 US-08-223-305C-29	Sequence 29, Appli
42	12.8	71.1	1924	2 US-08-756-317-1	Sequence 1, Appli
43	12.8	71.1	1950	3 US-08-911-853-14	Sequence 14, Appli
44	12.8	71.1	1950	4 US-09-479-409-14	Sequence 14, Appli
45	12.8	71.1	1950	4 US-09-479-453-14	Sequence 14, Appli

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      100.0%;   Score 18;   DB 4;   Length 4403765;
Best Local Similarity 100.0%;   Pred. No. 0.63;
Matches 18;   Conservative 0;   Mismatches 0;   Indels 0;   Gaps 0;

Oy      1 CACCCGTCGACACTAA 18
Db 3082564 CACCCGTCGACACTAA 3082547

RESULT 2
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; NUMBER OF SEQ ID NOS: 2
```

```

; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match          100.0%; Score 18; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 0.63;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1 CACCCGTTGCGACAGTAA 18
        |||
Db 3087881 CACCCGTTGCGACAGTAA 3087864

RESULT 3
US-08-687-590-57/C
; Sequence 57, Application US/08687590
; Patent No. 6255070
; GENERAL INFORMATION:
; APPLICANT: Willison, Keith Robert
; APPLICANT: Kubota, Hiroshi
; APPLICANT: A-hworh, Alan
; TITLE OF INVENTION: Folding Proteins
; NUMBER OF SEQUENCES: 74
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: United States of America
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/687,590
; FILING DATE: 31-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/GB95/00192
; FILING DATE: 31-JAN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9401791.0
; FILING DATE: 31-JAN-1994
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: GB 9418234.2
; FILING DATE: 09-SEP-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: Bastian, Kevin L.
; REGISTRATION NUMBER: 34,774
; REFERENCE/DOCKET NUMBER: 084619-000000US
; INFORMATION FOR SEQ ID NO: 57:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1986 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 162..1781
US-08-687-590-57

Query Match          82.2%; Score 14.8; DB 4; Length 1986;
Best Local Similarity 88.9%; Pred. No. 17;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 CACCCGTTGCGACAGTAA 18
        |||

```

```

Db 1656 CACCCGTTGCGACAGTAA 1639

RESULT 4
US-08-276-887A-12/C
; Sequence 12, Application US/08276887A
; Patent No. 5512478
; GENERAL INFORMATION:
; APPLICANT: Orser, Cindy S. and Xun, Luying
; TITLE OF INVENTION: GENES AND ENZYMES INVOLVED
; TITLE OF INVENTION: IN THE MICROBIAL
; TITLE OF INVENTION: DEGRADATION OF
; TITLE OF INVENTION: PENTACHLOROPHENOL
; NUMBER OF SEQUENCES: 13
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ramon A. Kiltzke II
; STREET: One World Trade Center
; STREET: 121 S.W. Salmon Street
; STREET: Suite 1600
; CITY: Portland
; STATE: Oregon
; COUNTRY: United States of America
; ZIP: 97204
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3-1/2 inch
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: MS DOS
; SOFTWARE: Wordperfect 5.1/PC Gene
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/276,887A
; FILING DATE: July 18, 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/914,282
; FILING DATE: July 13, 1992
; APPLICATION NUMBER: 07/856,015
; FILING DATE: March 23, 1992
; ATTORNEY/AGENT INFORMATION:
; NAME: Ramon A. Kiltzke II
; REGISTRATION NUMBER: 30,188
; REFERENCE/DOCKET NUMBER: 2815-36746
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (503) 226-7391
; TELEFAX: (503) 228-9446
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 972 base pairs
; TYPE: Nucleic Acid
; STRANDEDNESS: Double-Stranded
; TOPOLOGY: Linear
; MOLECULE TYPE: Genomic DNA
; DESCRIPTION:
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FRAGMENT TYPE:
; ORIGINAL SOURCE:
; ORGANISM: Flavobacterium sp. Strain
; ORGANISM: ATCC 39723
US-08-276-887A-12

Query Match          76.7%; Score 13.8; DB 1; Length 972;
Best Local Similarity 88.2%; Pred. No. 59;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 CACCCGTTGCGACAGTAA 17
        |||
Db 659 CACCCGTTGCGACAGCA 643

RESULT 5
US-09-095-855-204/C
; Sequence 204, Application US/09095855
; Patent No. 6160093

```

GENERAL INFORMATION:
APPLICANT: Tan, Paul
APPLICANT: Visser, Elizabeth
APPLICANT: Skinner, Margot
APPLICANT: Prestidge, Ross
TITLE OF INVENTION: Compounds and Methods for Treatment and Diagnosis of Mycobacterial Infections
NUMBER OF SEQUENCES: 208
CORRESPONDENCE ADDRESS:
ADDRESSEE: Law Offices of Ann W. Speckman
STREET: 2601 Elliott Avenue, Suite 4185
CITY: Seattle
STATE: WA
COUNTRY: USA
ZIP: 98121
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/095,855
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/705,347
FILING DATE: 29-AUG-1996
APPLICATION NUMBER: 08/873,970
FILING DATE: 12-JUN-1997
APPLICATION NUMBER: 08/997,362
FILING DATE: 23-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Sleath, Janet
REGISTRATION NUMBER: 37,007
REFERENCE/DOCKET NUMBER: 11000.1002c3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 206-269-0565
TELEFAX: 206-269-0563
TELEX:
INFORMATION FOR SEQ ID NO: 204:
SEQUENCE CHARACTERISTICS:
LENGTH: 1364 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-09-095-855-204

Query Match 76.7%; Score 13.8; DB 4; Length 1364;
Best Local Similarity 88.2%; Pred. No. 61;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CACCCGTTGGACAGTA 17
|||||
DB 1191 CACCCGTTGGACAGAA 1175

RESULT 6
US-09-205-426-204/c
Sequence 204, Application US/09205426
Patent No. 6406704
GENERAL INFORMATION:
APPLICANT: Watson, James D.
APPLICANT: Tan, Paul L. J.
TITLE OF INVENTION: Compounds and Methods for Treatment and
TITLE OF INVENTION: Diagnosis of Mycobacterial Infections
FILE REFERENCE: 11000.1002c4
CURRENT APPLICATION NUMBER: US/09/205,426
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: 09/095,855
EARLIER FILING DATE: 1998-06-11
EARLIER APPLICATION NUMBER: 08/997,362
EARLIER FILING DATE: 1997-12-23

EARLIER APPLICATION NUMBER: 08/873,970
EARLIER FILING DATE: 1997-06-12
EARLIER APPLICATION NUMBER: 08/705,347
EARLIER FILING DATE: 1996-08-29
NUMBER OF SEQ ID NOS: 208
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 204
LENGTH: 1364
TYPE: DNA
ORGANISM: Mycobacterium vaccae
US-09-205-426-204

Query Match 76.7%; Score 13.8; DB 4; Length 1364;
Best Local Similarity 88.2%; Pred. No. 61;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CACCCGTTGGACAGTA 17
|||||
DB 1191 CACCCGTTGGACAGAA 1175

RESULT 7
US-08-553-436A-5/c
Sequence 5, Application US/0855436A
Patent No. 5866790
GENERAL INFORMATION:
APPLICANT: HESSE, Holger
APPLICANT: MULLER-ROBER, Bernd
TITLE OF INVENTION: DNA SEQUENCES AND PLASMIDS FOR THE
TITLE OF INVENTION: PREPARATION OF SUGAR BEET WITH CHANGED SUCROSE
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ostrolenk, Faber, Gerb & Soffen
STREET: 1180 Avenue of the Americas
CITY: New York
STATE: NY
COUNTRY: US
ZIP: 10036-8403
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/553,436A
FILING DATE: 17-NOV-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: P/91/EP94/01671
FILING DATE: 20-MAY-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: DE P 4317596.1
FILING DATE: 24-MAY-1993
ATTORNEY/AGENT INFORMATION:
NAME: Weilman, Edward
REGISTRATION NUMBER: 24,735
REFERENCE/DOCKET NUMBER: P/951-117
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 382-0700
TELEFAX: (212) 382-0888
TELEX: 236925
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 3635 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Beta vulgaris
INDIVIDUAL ISOLATE: Saccharosephosphate Synthase
IMMEDIATE SOURCE:

LIBRARY: phage lambda zap
FEATURE:
NAME/KEY: CDS
LOCATION: 30..3167
US-08-553-436A-5

Query Match 76.7%; Score 13.8; DB 2; Length 3635;
Best Local Similarity 88.2%; Pred. No. 69;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 2 ACCGTTGCGACAGTAA 18
1 | | | | | | | | | | | | | | | | | |
Db 2844 ATCGTTCGACAGTAA 2828

RESULT 8
US-08-470-958-12/c
Sequence 12, Application US/08470958
Patent No. 5674707

GENERAL INFORMATION:
APPLICANT: HINTZ, WILLIAM E.
APPLICANT: LAGOSKY, PETER A.
TITLE OF INVENTION: PRODUCTION OF HETEROLOGOUS PROTEINS IN
TITLE OF INVENTION: FILAMENTOUS FUNGI
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:
ADDRESSEE: NIXON & VANDERHYE
STREET: 8TH FLOOR, 1100 NORTH GLEBE ROAD
CITY: ARLINGTON
STATE: VIRGINIA
COUNTRY: USA
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,958
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: MITCHARD, LEONARD C.
REGISTRATION NUMBER: 29,009
REFERENCE/DOCKET NUMBER: 1459-6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
TELEX: 200797 NIXN UR
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-470-958-12

Query Match 74.4%; Score 13.4; DB 1; Length 60;
Best Local Similarity 93.3%; Pred. No. 72;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 CCCGTCGACAGTAA 17
1 | | | | | | | | | | | | | | | | | |
Db 44 CCCGTCGACAGTAA 30

RESULT 9
US-08-321-474-10/c
Sequence 10, Application US/08321474
Patent No. 5710021
GENERAL INFORMATION:
APPLICANT: Hintz, William E.

APPLICANT: Lajosky, Peter A.
TITLE OF INVENTION: PRODUCTION OF HETEROLOGOUS PROTEINS IN
TITLE OF INVENTION: FILAMENTOUS FUNGI
NUMBER OF SEQUENCES: 10
CORRESPONDENCE ADDRESS:
ADDRESSEE: Nixon & Vanderhye
STREET: 8th Floor, 1100 No. 5710021th Glebe Road
CITY: Arlington
STATE: Virginia
COUNTRY: U.S.A.
ZIP: 22201-4714
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/321,474
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER: US/07/988,778
APPLICATION NUMBER: 10-DEC-1992
FILING DATE: 10-DEC-1992
ATTORNEY/AGENT INFORMATION:
NAME: Mitchard, Leonard C.
REGISTRATION NUMBER: 29,009
REFERENCE/DOCKET NUMBER: 617-13
TELECOMMUNICATION INFORMATION:
TELEPHONE: (703) 816-4000
TELEFAX: (703) 816-4100
TELEX: 200797 NIXN UR
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 360 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-321-474-10

Query Match 74.4%; Score 13.4; DB 1; Length 360;
Best Local Similarity 93.3%; Pred. No. 89;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 CCCGTCGACAGTAA 17
1 | | | | | | | | | | | | | | | | | |
Db 164 CCCGTCGACAGTAA 150

RESULT 10
5198345-23/c
Patent No. 5198345
APPLICANT: GWYNNE, DAVID I.; HUXTON, FRANCIS P.; PICKETT, MARK H.
DAVIES, ROGER W.; SCAZZOCHIO, CLAUDIO
TITLE OF INVENTION: VECTORS IN USE IN FILAMENTOUS FUNGI
NUMBER OF SEQUENCES: 28
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/811,404
FILING DATE: 20-DEC-1985
SEQ ID NO: 23:
LENGTH: 1182
5198345-23

Query Match 74.4%; Score 13.4; DB 6; Length 1182;
Best Local Similarity 93.3%; Pred. No. 1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 CCCGTCGACAGTAA 17
1 | | | | | | | | | | | | | | | | | |
Db 503 CCCGTCGACAGTAA 489

RESULT 11

5198345-20/C
; Patent No. 5198345
; APPLICANT: GWYNNE, DAVID I.; BUXTON, FRANCIS P.; PICKETT, MARK H.
; DAVIES, ROGER W.; SCAZZOCCHIO, CLAUDIO
; TITLE OF INVENTION: VECTORS IN USE IN FILAMENTOUS FUNGI
; NUMBER OF SEQUENCES: 28
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/811,404
; FILING DATE: 20-DEC-1985
; SEQ ID NO: 20:
; LENGTH: 1662
5198345-20
Query Match 74.4%; Score 13.4; DB 6; Length 1662;
Best Local Similarity 93.3%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 3 CACCGTTCGACAGTA 17
Db 1178 CCGTGGGACAGTA 1164
RESULT 12
US-08-971-089-3
; Sequence 3, Application US/08971089
; Patent No. 6376174
; GENERAL INFORMATION:
; APPLICANT: Scoles, Daniel R.
; TITLE OF INVENTION: NOCETIC ACID ENCODING
; TITLE OF INVENTION: SCHWANNOMIN-BINDING-PROTEINS AND PRODUCTS RELATED THERETO
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: CAMPBELL & FLORES, LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/971,089
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/030,987
; FILING DATE: 15-NOV-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Ramos, Robert T.
; REGISTRATION NUMBER: 37,915
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619)535-9001
; TELEFAX: (619)535-8949
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2854 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: both
; TOPOLOGY: both
; MOLECULE TYPE: cDNA
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 45..2786
; US-08-971-089-3
Query Match 74.4%; Score 13.4; DB 4; Length 2854;
Best Local Similarity 93.3%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 CACCGTTCGACAG 15
Db 62 CACCGTTCGACAG 76
RESULT 13
US-07-746-705A-16
; Sequence 16, Application US/07746705A
; Patent No. 5451516
; GENERAL INFORMATION:
; APPLICANT: Matthews, Benjamin F.
; APPLICANT: Weisemann, Jane M.
; TITLE OF INVENTION: A Recombinant DNA Molecule Encoding
; TITLE OF INVENTION: a Bifunctional Plant Enzyme: Aspartokinase and Homoserine
; NUMBER OF SEQUENCES: 16
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Janelle S. Graeler
; STREET: Bldg. 005, Room 402, BARC-W
; CITY: Beltsville
; STATE: Maryland
; COUNTRY: USA
; ZIP: 20705
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/746,705A
; FILING DATE: 19910816
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Graeler, Janelle S.
; REGISTRATION NUMBER: 35,024
; REFERENCE/DOCKET NUMBER: 4000.91
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (301)504-5676
; TELEFAX: (301)504-5060
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2915 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: both
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA to mRNA
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; FEATURE:
; NAME/KEY: CDS
; LOCATION: 2..2593
; US-07-746-705A-16
Query Match 74.4%; Score 13.4; DB 1; Length 2915;
Best Local Similarity 93.3%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1 CACCGTTCGACAG 15
Db 2423 CACCGTTCGACAG 2437
RESULT 14
US-08-380-182-18
; Sequence 18, Application US/08380182
; Patent No. 5858749
; GENERAL INFORMATION:
; APPLICANT: Matthews, Benjamin F.
; APPLICANT: Weisemann, Jane M.
; TITLE OF INVENTION: A Bifunctional Protein From Carrots
; TITLE OF INVENTION: (Daucus carota) with Aspartokinase and Homoserine
; TITLE OF INVENTION: Dehydrogenase Activities

Job time : 1923.22 secs

NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Janelle S. Graeter
STREET: Room 411, Bldg. 005, BARC-W
CITY: Beltsville
STATE: Maryland
COUNTRY: USA
ZIP: 20705
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/380,182
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Graeter, Janelle S.
REGISTRATION NUMBER: 35,024
REFERENCE/DOCKET NUMBER: 0226,94
TELECOMMUNICATION INFORMATION:
TELEPHONE: 301-504-6629
TELEFAX: 301-504-5060
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 2915 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Daucus carota
FEATURE:
NAME/KEY: CDS
LOCATION: 2..2593
US-08-380-182-18

Query Match 74.4%; Score 13.4; DB 2; Length 2915;
Best Local Similarity 93.3%; Pred. No. 1.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CACCCGTTGCGACAG 15
|||||
Db 2423 CACCCGTTGCGACAG 2437

RESULT 15
5198345-16/c
; Patent No. 5198345
; APPLICANT: GWYNNE, DAVID I.; BUXTON, FRANCIS P.; PICKETT, MARK H.
; DAVIES, ROGER W.; SCAZZOCCHIO, CLAUDIO
; TITLE OF INVENTION: VECTORS IN USE IN FILAMENTOUS FUNGI
; NUMBER OF SEQUENCES: 28
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/811,404
; FILING DATE: 20-DEC-1985
; SEQ ID NO: 16:
; LENGTH: 33.7
5198345-16

Query Match 74.4%; Score 13.4; DB 6; Length 3377;
Best Local Similarity 93.3%; Pred. No. 1.2e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 CCCGTTGCGACAGTA 17
|||||
Db 1176 CCCGTTGCGACAGTA 1162

Search completed: February 18, 2003, 01:47:02

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 : Search time 96.2091 Seconds
(Without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-20

Perfected score: 18

Sequence: 1 CACCCGTTGCGACAGTAA 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 254661826 residues 848478

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/FCI_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/FCIUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.8	82.2	453	10 US-09-960-352-5821	Sequence 5821, App
2	14.8	82.2	571	9 US-09-796-692-5313	Sequence 5313, App
3	14.8	82.2	574	9 US-09-796-692-5204	Sequence 5204, App
4	14.8	82.2	2003	10 US-09-960-253-148	Sequence 148, App
5	14.8	82.2	22889	9 US-09-860-670-144	Sequence 164, App
6	13.8	76.7	1364	9 US-09-051-643-24	Sequence 204, App
7	13.8	76.7	8351	10 US-09-917-800A-1399	Sequence 1399, App
8	13.4	74.4	791	10 US-09-974-300-2154	Sequence 983, App
9	13.4	74.4	1296	9 US-09-954-531-1378	Sequence 1378, App
10	13.4	74.4	1545	9 US-09-741-669-155	Sequence 155, App
11	13.4	74.4	1545	10 US-09-117-604-3	Sequence 3, App
12	13.4	74.4	2854	9 US-09-893-519A-124	Sequence 124, App
13	13.4	74.4	2898	9 US-09-822-849A-524	Sequence 524, App
14	13.4	74.4	2912	10 US-09-822-849A-524	Sequence 113, App
15	13.4	74.4	3870	10 US-09-712-363-113	Sequence 926, App
16	13.2	73.3	359	10 US-09-878-574-4926	Sequence 4976, App
17	13.2	73.3	392	10 US-09-878-574-4976	Sequence 279, App
18	13.2	73.3	436	10 US-09-925-299-279	Sequence 547, App
19	13.2	73.3	468	10 US-09-917-800A-547	Sequence 547, App

C 20	13.2	73.3	486	10 US-09-974-300-3131	Sequence 3131, App
C 21	13.2	73.3	661	9 US-10-012-896-624	Sequence 624, App
C 22	13.2	73.3	661	9 US-09-895-793-624	Sequence 624, App
C 23	13.2	73.3	661	9 US-09-895-814-624	Sequence 624, App
C 24	13.2	73.3	661	10 US-09-759-143-624	Sequence 624, App
C 25	13.2	73.3	661	10 US-09-780-669-624	Sequence 624, App
C 26	13.2	73.3	661	10 US-09-823-827-624	Sequence 624, App
C 27	13.2	73.3	700	9 US-09-774-639-33	Sequence 33, App
C 28	13.2	73.3	834	10 US-09-764-888-141	Sequence 141, App
C 29	13.2	73.3	897	10 US-09-741-669-163	Sequence 163, App
C 30	13.2	73.3	897	10 US-09-815-242-6190	Sequence 6190, App
C 31	13.2	73.3	924	10 US-09-764-898-69	Sequence 69, App
C 32	13.2	73.3	1221	10 US-09-741-669-215	Sequence 215, App
C 33	13.2	73.3	1380	10 US-09-974-300-227	Sequence 225, App
C 34	13.2	73.3	1641	9 US-09-738-626-2255	Sequence 2255, App
C 35	13.2	73.3	2009	10 US-09-764-866-2134	Sequence 2134, App
C 36	13.2	73.3	2009	10 US-09-764-866-2139	Sequence 2139, App
C 37	12.8	71.1	300	10 US-09-294-093B-88	Sequence 88, App
C 38	12.8	71.1	414	10 US-09-783-590-10775	Sequence 10775, App
C 39	12.8	71.1	474	10 US-09-880-107-49	Sequence 49, App
C 40	12.8	71.1	507	10 US-09-864-761-8421	Sequence 8421, App
C 41	12.8	71.1	534	9 US-09-938-842A-1049	Sequence 1049, App
C 42	12.8	71.1	555	9 US-10-007-270-14	Sequence 14, App
C 43	12.8	71.1	582	12 US-10-068-080-12	Sequence 127, App
C 44	12.8	71.1	606	10 US-09-741-669-131	Sequence 131, App
C 45	12.8	71.1	606	10 US-09-912-020-232	Sequence 232, App

ALIGNMENTS

RESULT 1
US-09-960-352-5821
Sequence 5821, Application US/09960352
Patent No. US2002013719A1
GENERAL INFORMATION:
APPLICANT: Warren, Wesl. C.
APPLICANT: Tao, Nengph.
APPLICANT: By-It, John C.
APPLICANT: Mathiasen, Naepaan
TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
FILE REFERENCE: 16511_006/37-21(10298)C
CURRENT APPLICATION NUMBER: US/09/960.352
CURRENT FILING DATE: 2001-09-24
NUMBER OF SEQ ID NOS: 15112
SEQ ID NO 5821
LENGTH: 453
TYPE: DNA
ORGANISM: Bos taurus
FEATURE:
NAME/KEY: unsure
LOCATION: (27)...(28),(60),(71),(73),(77),(82)...(83),(130),(133),
LOCATION: (143),(151),(391)
OTHER INFORMATION: unsure at all n locations
OTHER INFORMATION: Clone ID: 25-LIB3058-036-Q1-K1-G1
US-09-960-352-5821

Query Match 82.2% Score 14.8; DB 10; Length 453;
Best local Similarity 88.9% Pred. No. 18;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 CACCCGTTGCGACAGTAA 18
DB 341 CACCCGTTGCGACAGTAA 358
RESULT 2
US-09-796-692-5313/C
Sequence 5313, Application US/09796692
Publication No. US20020198362A1
GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander

```
APPLICANT: Algate, Paul A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
FILE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
FILE REFERENCE: 2077.001200
CURRENT APPLICATION NUMBER: US/09/796,692
PRIOR FILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: 60/206,201
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 60/222,903
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR FILING DATE: 2000-08-07
NUMBER OF SEQ ID NOS: 9597
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5313
LENGTH: 571
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: unsure
LOCATION: (561)
OTHER INFORMATION: n-A,T,C or G
US-09-796-692-5313

Query Match      82.2%; Score 14.8; DB 9; Length 571;
Best Local Similarity 88.9%; Pred. No. 19;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 CACCGTTCGACAGTAA 18
      ||||| ||||| |||
DB      395 CACCTTTGCGACATTAA 378

RESULT 3
US-09-796-692-5204
Sequence 5204, Application US/09796692
Publication No. US20020198362A1
GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Mannion, Jane
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
FILE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
FILE REFERENCE: 2077.001200
CURRENT APPLICATION NUMBER: US/09/796,692
CURRENT FILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: 60/206,201
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 60/222,903
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR FILING DATE: 2000-08-07
NUMBER OF SEQ ID NOS: 9597
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5204
LENGTH: 574
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: unsure
LOCATION: (120)
OTHER INFORMATION: n-A,T,C or G
NAME/KEY: unsure
LOCATION: (318)
OTHER INFORMATION: n-A,T,C or G
US-09-796-692-5204

Query Match      82.2%; Score 14.8; DB 9; Length 574;
Best Local Similarity 88.9%; Pred. No. 19;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: 60/206,201
PRIOR FILING DATE: 2000-05-22
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 60/222,903
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR FILING DATE: 2000-08-07
NUMBER OF SEQ ID NOS: 9597
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5204
LENGTH: 574
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: unsure
LOCATION: (120)
OTHER INFORMATION: n-A,T,C or G
NAME/KEY: unsure
LOCATION: (318)
OTHER INFORMATION: n-A,T,C or G
US-09-796-692-5204

Query Match      82.2%; Score 14.8; DB 9; Length 574;
Best Local Similarity 88.9%; Pred. No. 19;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 CACCGTTCGACAGTAA 18
      ||||| ||||| |||
DB      247 CACCTTTGCGACATTAA 264

RESULT 4
US-09-960-253-148/C
Sequence 148, Application US/09960253
Patent No. US20020123619A1
GENERAL INFORMATION:
APPLICANT: Benson, Darin R.
APPLICANT: Mohamath, Raed J.
APPLICANT: Lodes, Michael J.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE OF INVENTION: AND DIAGNOSIS OF LUNG CANCER
FILE REFERENCE: 210121.556
CURRENT APPLICATION NUMBER: US/09/960,253
CURRENT FILING DATE: 2001-09-20
NUMBER OF SEQ ID NOS: 187
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 148
LENGTH: 2003
TYPE: DNA
ORGANISM: Homo sapiens
US-09-960-253-148

Query Match      82.2%; Score 14.8; DB 10; Length 2003;
Best Local Similarity 88.9%; Pred. No. 21;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY      1 CACCGTTCGACAGTAA 18
      ||||| ||||| |||
DB      1597 CACCTTTGCGACATTAA 1580

RESULT 5
US-09-860-670-164/C
Sequence 164, Application US/09860670
```

```

; Patent No. US20020165137A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; FILE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA127P1
; CURRENT APPLICATION NUMBER: US/09/860,670
; PRIOR FILING DATE: 2001-05-21
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 289
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 164
; LENGTH: 22889
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-860-670-164

Query Match      82.2%; Score 14.8; DB 9; Length 22889;
Best Local Similarity 88.9%; Pred. No. 28;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 CACCGTTGCGACAGTAA 18
        ||||| || |||||
Db      9580 CACCGCTCAGACAGTAA 9563

RESULT 6
US-10-051-643-204/c
; Sequence 204, Application US/10051643
; Publication No. US20020197265A1
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Tan, Paul L. J.
; TITLE OF INVENTION: Methods and Compounds for the Treatment
; TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
; FILE REFERENCE: 11000,1008c2
; CURRENT APPLICATION NUMBER: US/10/051,643
; CURRENT FILING DATE: 2002-01-18
; PRIOR APPLICATION NUMBER: US09/156,181
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: US 08/996,624
; PRIOR FILING DATE: 1997-12-23
; NUMBER OF SEQ ID NOS: 208
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 204
; LENGTH: 1364
; TYPE: DNA
; ORGANISM: Mycobacterium vaccae
US-10-051-643-204

Query Match      76.7%; Score 13.8; DB 9; Length 1364;
Best Local Similarity 88.2%; Pred. No. 78;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 CACCGTTGCGACAGTAA 17
        ||||| |||||
Db      1191 CACCGCTGCGACAGAA 1175

RESULT 7
US-09-917-800A-1399/c
; Sequence 1399, Application US/09917800A
; GENERAL INFORMATION:
; APPLICANT: Mendrick, Donna
; APPLICANT: Porter, Mark
; APPLICANT: Johnson, Kory
; APPLICANT: Castle, Arthur
; APPLICANT: Elashoff, Michael
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Molecular Toxicology Modeling
; FILE REFERENCE: 44921-5038-US
; CURRENT APPLICATION NUMBER: US/09/917,800A
```

```

; CURRENT FILING DATE: 2001-07-31
; PRIOR APPLICATION NUMBER: US 60/222,040
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 60/222,880
; PRIOR FILING DATE: 2000-11-02
; PRIOR APPLICATION NUMBER: US 60/290,029
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/290,645
; PRIOR FILING DATE: 2001-05-15
; PRIOR APPLICATION NUMBER: US 60/292,336
; PRIOR FILING DATE: 2001-05-22
; PRIOR APPLICATION NUMBER: US 60/295,798
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: US 60/297,457
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,884
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: US 60/303,459
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 1740
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1399
; LENGTH: 8351
; TYPE: DNA
; ORGANISM: Rattus norvegicus
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020119462A1 M11794
US-09-917-800A-1399

Query Match      76.7%; Score 13.8; DB 10; Length 8351;
Best Local Similarity 88.2%; Pred. No. 96;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 ACCCGTTGCGACAGTAA 18
        ||||| ||||| |||
Db      7418 ACCCGTTGCGACATTA 7402

RESULT 8
US-09-974-300-2154/c
; Sequence 2154, Application US/09974300
; Patent No. US20020146721A1
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, Ib Groth
; TITLE OF INVENTION: Methods for Monitoring Multiple Gene
; FILE REFERENCE: 10085,500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2154
; LENGTH: 791
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-974-300-2154

Query Match      74.4%; Score 13.4; DB 10; Length 791;
Best Local Similarity 93.3%; Pred. No. 1,3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 CACCGTTGCGACAG 15
        ||||| ||||| |||
Db      116 CACCGTTGCGACCG 102

RESULT 9
US-09-954-531-983
```

```
; Sequence 983, Application US/09954531
; Patent No. US20020165180A1
; GENERAL INFORMATION:
; APPLICANT: Weaver, Zoe
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cand
; FILE REFERENCE: 689290-77
; CURRENT APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: US/60/233,133
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,009
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,034
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,509
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US/60/234,567
; PRIOR FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 1392
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 983
; LENGTH: 1296
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-531-983
```

```
Query Match          74.4%; Score 13.4; DB 9; Length 1296;
Best Local Similarity 93.3%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
UY      2 ACCCGTTCCGACAGT 16
      ||||| ||||| |||||
Db      933 ACCCGATCGACAGT 947
```

```
RESULT 10
US-09-954-531-1378
; Sequence 1378, Application US/09954531
; Patent No. US20020165180A1
; GENERAL INFORMATION:
; APPLICANT: Weaver, Zoe
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cand
; FILE REFERENCE: 689290-77
; CURRENT APPLICATION NUMBER: US/09/954,531
; PRIOR FILING DATE: 2002-05-02
; PRIOR APPLICATION NUMBER: US/60/233,133
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,009
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,034
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,509
; PRIOR FILING DATE: 2000-09-22
; PRIOR APPLICATION NUMBER: US/60/234,567
; PRIOR FILING DATE: 2000-09-22
; NUMBER OF SEQ ID NOS: 1392
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1378
; LENGTH: 1296
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-954-531-1378
```

```
Query Match          74.4%; Score 13.4; DB 9; Length 1296;
Best Local Similarity 93.3%; Pred. No. 1.3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
UY      2 ACCCGTTCCGACAGT 16
      ||||| ||||| |||||
Db      933 ACCCGATCGACAGT 947
```

```
RESULT 11
US-09-741-669-155
; Sequence 155, Application US/09741669
; Patent No. US20020022718A1
; GENERAL INFORMATION:
; APPLICANT: Forsyth, R. Alllyn
; APPLICANT: Ohlson, Karl L.
; TITLE OF INVENTION: Genes identified as required for
; FILE REFERENCE: ELITRA.009A
; CURRENT APPLICATION NUMBER: US/09/741,669
; PRIOR FILING DATE: 2000-12-19
; PRIOR APPLICATION NUMBER: US 60/173005
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 155
; LENGTH: 1545
; TYPE: DNA
; ORGANISM: Escherichia coli
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(1545)
US-09-741-669-155
```

```
Query Match          74.4%; Score 13.4; DB 10; Length 1545;
Best Local Similarity 93.3%; Pred. No. 1.4e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
UY      4 CCGTTCGACAGTAA 18
      ||||| ||||| |||||
Db      1455 CCGTTCGACAGTAA 1469
```

```
RESULT 12
US-10-117-604-3
; Sequence 3, Application US/10117604
; Patent No. US20020168672A1
; GENERAL INFORMATION:
; APPLICANT: Pulst, Stefan M.
; APPLICANT: Scoles, Daniel R.
; TITLE OF INVENTION: NUCLEIC ACID ENCODING
; NUMBER OF SEQUENCES: 10
; CORRESPONDENCE ADDRESS:
; ADDRESS: CAMPBELL & FLORES, LLP
; STREET: 4370 La Jolla Village Drive, Suite 700
; CITY: San Diego
; STATE: California
; COUNTRY: United States
; ZIP: 92122
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-POS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/117,604
; FILING DATE: 04-Apr-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/971,089
; FILING DATE: <Unknown>
; APPLICATION NUMBER: US 60/030,987
; FILING DATE: 15-NOV-1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Ramos, Robert T.
; REGISTRATION NUMBER: 37,915
; REFERENCE/DOCKET NUMBER: P-CE 2862
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (619)535-9001
```

```

:
: TELEFAX: (619)535-8949
:
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
:   LENGTH: 2854 base pairs
:   TYPE: nucleic acid
:   STRANDEDNESS: both
:   TOPOLOGY: both
: MOLECULE TYPE: cDNA
: FEATURE:
:   NAME/KEY: CDS
:   LOCATION: 45..2786
: SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-10-117-604-3

Query Match      74.4%: Score 13.4; DB 9; Length 2854;
Best Local Similarity 93.3%: Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CACCGGTTGGACAG 15
    |||||
1b 62 CACCGGTTGGACAG 76

RESULT 13
US-09-893-519A-124
: Sequence 124, Application US/09893519A
: Publication No. US20030027243A1
: GENERAL INFORMATION:
: APPLICANT: ANADYS PHARMACEUTICALS, INC.
: APPLICANT: THOMPSON, Craig
: APPLICANT: MOORE, Jeffrey
: APPLICANT: BUHRMAN, Ed T.
: APPLICANT: BRADLEY, John
: APPLICANT: DESILVA, Thamara
: APPLICANT: HARRIS, Sandra
: APPLICANT: KOMARNITSKY, Svetlana
: APPLICANT: MENDILLO, Marc
: APPLICANT: MOORE, Daniel
: APPLICANT: MCCOY, Melissa
: APPLICANT: SANDERSON, Karen
: APPLICANT: HAO, Tariq
: APPLICANT: ZHU, Shuhao
: APPLICANT: LONG, Fan
: APPLICANT: DAVIDOV, Eugene
: TITLE OF INVENTION: ANTIFUNGAL COMPOUNDS AND METHODS OF USE
: FILE REFERENCE: 0342/1G548-US2
: CURRENT APPLICATION NUMBER: US/09/893,519A
: CURRENT FILING DATE: 2001-06-28
: PRIOR APPLICATION NUMBER: US 60/215,164
: PRIOR FILING DATE: 2000-06-29
: PRIOR APPLICATION NUMBER: US 60/224,457
: PRIOR FILING DATE: 2000-08-10
: NUMBER OF SEQ ID NOS: 146
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 124
: LENGTH: 2898
: TYPE: DNA
: ORGANISM: Homo sapiens
: PUBLICATION INFORMATION:
: DATABASE ACCESSION NUMBER: Human Genbank/U46025.1
: DATABASE ENTRY DATE: 1999-01-08
: RELEVANT RESIDUES: (1)..(2898)
US-09-893-519A-124

Query Match      74.4%: Score 13.4; DB 9; Length 2898;
Best Local Similarity 93.3%: Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CACCGGTTGGACAG 15
    |||||
1b 67 CACCGGTTGGACAG 81
```

```

:
: RESULT 14
: US-09-822-849A-524/C
: Sequence 524, Application US/09822849A
: Patent No. US20020045170A1
: GENERAL INFORMATION:
: APPLICANT: Wong, Gordon G.
: APPLICANT: Clark, Hilary
: APPLICANT: Rechtel, Kim
: APPLICANT: Agostino, Michael J.
: APPLICANT: Howes, Steven H.
: APPLICANT: Resnick, Richard J.
: APPLICANT: Gulukota, Kamalakr
: APPLICANT: Graham, James R.
: APPLICANT: Genetics Institute, Inc.
: TITLE OF INVENTION: POLYPEPTIDES ENCODING NOVEL SECRETED PROTEINS
: FILE REFERENCE: GIN 6403
: CURRENT APPLICATION NUMBER: US/09/822,849A
: CURRENT FILING DATE: 2001-09-04
: PRIOR APPLICATION NUMBER: 60/195,582
: PRIOR FILING DATE: 2000-04-06
: NUMBER OF SEQ ID NOS: 508
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 524
: LENGTH: 2912
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-822-849A-524

Query Match      74.4%: Score 13.4; DB 10; Length 2912;
Best Local Similarity 93.3%: Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CACCGGTTGGACAG 15
    |||||
1b 2829 CACCGGTTGGACAG 2815

RESULT 15
US-09-712-363-113/C
: Sequence 113, Application US/09712363
: Patent No. US20020164588A1
: GENERAL INFORMATION:
: APPLICANT: Eisenberg, David
: APPLICANT: Rotstein, Sergio H.
: APPLICANT: Marcotte, Edward M.
: TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
: FILE REFERENCE: 07419-032001
: CURRENT APPLICATION NUMBER: US/09/712,363
: CURRENT FILING DATE: 2000-11-13
: PRIOR APPLICATION NUMBER: 60/10500/02246
: PRIOR FILING DATE: 2000-01-28
: PRIOR APPLICATION NUMBER: 60/179,531
: PRIOR FILING DATE: 2000-02-01
: PRIOR APPLICATION NUMBER: 60/117,844
: PRIOR FILING DATE: 1999-01-29
: PRIOR APPLICATION NUMBER: 60/118,206,
: PRIOR FILING DATE: 1999-02-01
: PRIOR APPLICATION NUMBER: 60/126,593
: PRIOR FILING DATE: 1999-03-26
: PRIOR APPLICATION NUMBER: 60/134,093
: PRIOR FILING DATE: 1999-05-14
: PRIOR APPLICATION NUMBER: 60/134,092
: PRIOR FILING DATE: 1999-05-14
: PRIOR APPLICATION NUMBER: 60/165,124
: PRIOR FILING DATE: 1999-11-12
: PRIOR APPLICATION NUMBER: 60/165,086
: PRIOR FILING DATE: 1999-11-12
: NUMBER OF SEQ ID NOS: 292
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 113
: LENGTH: 3870
: TYPE: DNA
```

; ORGANISM: Mycobacterium tuberculosis
US-09-712-363-113

Query Match 74.4%; Score 13.4; DB 9; Length 3870;
Best Local Similarity 93.3%; Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 CACCCGTCGGACAG 15
|||||
Db 1152 CACCCGTCGGCCAG 1138

Search completed: February 18, 2003, 07:09:32
Job time : 101.209 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 26.216 Seconds

(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-21

Perfect score: 18

Sequence: 1 CGCGCGCGACATCATCC 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCITUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfilest.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	18	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
C 2	18	100.0	4411529	4 US-09-103-840A-1	Sequence 1, Appli
3	16	88.9	1155	4 US-08-818-112-12	Sequence 12, Appli
4	16	88.9	1155	4 US-08-818-111-12	Sequence 12, Appli
5	16	88.9	1155	4 US-09-056-556-12	Sequence 12, Appli
6	16	88.9	1155	4 US-09-072-596-12	Sequence 12, Appli
7	15	83.3	6317	1 US-08-920-812-21	Sequence 21, Appli
C 8	15	83.3	6317	1 US-08-920-827-21	Sequence 21, Appli
C 9	15	83.3	6317	1 US-08-921-177-21	Sequence 21, Appli
C 10	15	83.3	6317	1 US-08-362-577C-21	Sequence 21, Appli
C 11	15	83.3	6317	2 US-08-920-828-21	Sequence 21, Appli
C 12	14.8	82.2	1185	2 US-08-628-039-9	Sequence 9, Appli
C 13	14.8	82.2	1185	2 US-08-912-205-9	Sequence 9, Appli
C 14	14.8	82.2	1185	4 US-09-440-400-9	Sequence 9, Appli
C 15	14.8	82.2	1185	4 US-09-177-650-1	Sequence 9, Appli
16	14.8	82.2	3232	4 US-09-177-650-95	Sequence 95, Appli
17	14.8	82.2	3232	4 US-08-809-740A-1	Sequence 1, Appli
18	14.8	82.2	3252	2 US-08-809-740A-4	Sequence 4, Appli
19	14.8	82.2	3287	4 US-09-105-058C-19	Sequence 19, Appli
20	14.8	82.2	33529	4 US-09-144-085-3	Sequence 3, Appli
C 21	14.8	80.0	1211	4 US-09-221-017B-651	Sequence 651, App
22	14.4	80.0	2544	4 US-09-235-451-33	Sequence 33, Appli
23	14.4	80.0	3463	4 US-09-533-220A-1	Sequence 1, Appli
24	14.4	80.0	3500	4 US-09-197-636-7	Sequence 7, Appli
25	14.4	80.0	4803	4 US-09-197-636-1	Sequence 1, Appli
26	14.4	80.0	4803	4 US-09-197-636-1	Sequence 1, Appli
27	14.4	80.0	4803	4 US-09-197-636-3	Sequence 3, Appli

28	14.4	80.0	6575	3 US-08-949-386-3	Sequence 3, Appli
29	14.4	80.0	6575	3 US-08-450-562-3	Sequence 3, Appli
30	14.4	80.0	6575	4 US-08-984-709A-3	Sequence 3, Appli
31	14.4	80.0	6575	4 US-08-450-272-3	Sequence 3, Appli
32	14.4	80.0	6725	3 US-08-949-386-36	Sequence 36, Appli
33	14.4	80.0	6725	3 US-08-450-562-36	Sequence 36, Appli
34	14.4	80.0	6725	4 US-08-984-709A-36	Sequence 36, Appli
35	14.4	80.0	6725	4 US-08-450-272-36	Sequence 36, Appli
C 36	14.4	80.0	11219	3 US-07-642-734C-1	Sequence 1, Appli
C 37	14.4	80.0	11219	3 US-08-439-009A-1	Sequence 1, Appli
38	14.4	80.0	38155	4 US-09-453-702B-79	Sequence 79, Appli
39	14	77.8	4131	1 US-08-485-568-4	Sequence 4, Appli
40	14	77.8	4131	1 US-08-484-565-4	Sequence 4, Appli
41	14	77.8	4131	2 US-08-480-751-4	Sequence 4, Appli
42	14	77.8	4131	2 US-08-943-986-4	Sequence 4, Appli
43	14	77.8	4131	3 US-08-353-784-4	Sequence 4, Appli
44	14	77.8	4131	3 US-08-484-719B-4	Sequence 4, Appli
45	14	77.8	4131	4 US-08-484-159-4	Sequence 4, Appli

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
US-09-103-840A-2

Query Match          100.0%; Score 18; DB 4; Length 4403765;
Best Local Similarity 100.0%; Pred. No. 3.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCGCGCGACATCATCC 18
Db 3082678 CGCGCGCGACATCATCC 3082661

RESULT 2
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
```

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 100.0%; Score 18; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 3.2;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCGCGCCGACATCATCGC 18
|||||
DB 3087995 CGCGCGCCGACATCATCGC 3087978

RESULT 3
US-08-818-112-12
Sequence 12, Application US/08818112
Patent No. 6290969
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedicik, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR IMMUNOTHERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF TUBERCULOSIS
NUMBER OF SEQUENCES: 153
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,112
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.411C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-112-12

Query Match 88.9%; Score 16; DB 4; Length 1155;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCGCGCCGACATCATC 16
|||||
DB 806 CGCGCGCCGACATCATC 821

RESULT 4

US-08-818-111-12
Sequence 12, Application US/08818111
Patent No. 6338852
GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
APPLICANT: Campos-Neto, Antonio
APPLICANT: Houghton, Raymond
APPLICANT: Vedicik, Thomas S.
APPLICANT: Twardzik, Daniel R.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
TUBERCULOSIS
NUMBER OF SEQUENCES: 148
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818,111
FILING DATE: 13-MAR-1997
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-818-111-12

Query Match 88.9%; Score 16; DB 4; Length 1155;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGCGCGCCGACATCATC 16
|||||
DB 806 CGCGCGCCGACATCATC 821

RESULT 5
US-09-056-556-12
Sequence 12, Application US/09056556
Patent No. 6350456
GENERAL INFORMATION:

APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, Davin C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR THE PREVENTION AND
NUMBER OF SEQUENCES: 241
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTE: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA: US/09/056,556
APPLICATION NUMBER: US/09/056,556
FILING DATE: 07-APR-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.457
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-056-556-12

Query Match 88.9% Score 16; DB 4; Length 1155;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CGCGCCGACATCATC 16
|||||
DB 806 CGCGCCGACATCATC 821

RESULT 6
US-09-072-596-12
Sequence 12, Application US/09072596
Patent No. 6458366
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Skeiky, Yasir A.W.
APPLICANT: Dillon, David C.
APPLICANT: Campos-Neto, Antonia
APPLICANT: Houghton, Raymond
APPLICANT: Vedajick, Thomas S.
APPLICANT: Twardzik, Daniel R.
APPLICANT: Lodes, Michael J.
APPLICANT: Hendrickson, Ronald C.
TITLE OF INVENTION: COMPOUNDS AND METHODS FOR DIAGNOSIS OF
NUMBER OF SEQUENCES: 350
CORRESPONDENCE ADDRESS:
ADDRESSEE: SEED and BERRY LLP
STREET: 6300 Columbia Center, 701 Fifth Avenue
CITY: Seattle
STATE: Washington
COUNTRY: USA
ZIP: 98104-7092
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/072,596
FILING DATE: 05-MAY-1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Maki, David J.
REGISTRATION NUMBER: 31,392
REFERENCE/DOCKET NUMBER: 210121.417C9
TELECOMMUNICATION INFORMATION:
TELEPHONE: (206) 622-4900
TELEFAX: (206) 682-6031
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 1155 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
US-09-072-596-12

Query Match 88.9% Score 16; DB 4; Length 1155;
Best Local Similarity 100.0%; Pred. No. 36;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CGCGCCGACATCATC 16
|||||
DB 806 CGCGCCGACATCATC 821

RESULT 7
US-08-920-812-21/c
Sequence 21, Application US/08920812
Patent No. 5763188
GENERAL INFORMATION:
APPLICANT: Ohno, Tsuneya
APPLICANT: Matsuhisa, Akio
APPLICANT: Uehara, Hirotsugu
APPLICANT: Eda, Soji
TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 6300 Sears Tower, 233 South Wacker Drive
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/920,812
FILING DATE: 29-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,577
FILING DATE: 27-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Rin-Lautes, Li-Hsien
REGISTRATION NUMBER: 34,547
REFERENCE/DOCKET NUMBER: 19036/32420
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6400
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 6317 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Enterobacter cloacae
STRAIN: Clinical Isolate ET-12
US-08-920-812-21

Query Match 83.3% Score 15; DB 1; Length 6317;
Best Local Similarity 100.0%; Pred. No. 99;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 GCAGCCGACATCATC 16
|||||
DB 6178 GCAGCCGACATCATC 6164

RESULT 8

US-08-920-827-21/c
; Sequence 21, Application US/08920827
; Patent No. 5770375
; GENERAL INFORMATION:
; APPLICANT: Ohno, Tsuneya
; APPLICANT: Matsuhisa, Akio
; APPLICANT: Uehara, Hirotsugu
; APPLICANT: Eda, Soji
; TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/920,827
; FILING DATE: 29-AUG-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/362,577
; FILING DATE: 27-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Rin-Laures, Li-Hsien
; REGISTRATION NUMBER: 33,547
; REFERENCE/DOCKET NUMBER: 19036/32420
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312/474-6300
; TELEFAX: 312/474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 6317 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: Genomic DNA
; ORIGINAL SOURCE:
; ORGANISM: Enterobacter cloacae
; STRAIN: Clinical Isolate Et-12
; US-08-920-827-21

Query Match 83.3%; Score 15; DB 1; Length 6317;
Best Local Similarity 100.0%; Pred. No. 99;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GCGGCCGACATCATC 16
|||||
Db 6178 GCGGCCGACATCATC 6164

RESULT 9
US-08-921-177-21/c
; Sequence 21, Application US/08921177
; Patent No. 5798211
; GENERAL INFORMATION:
; APPLICANT: Ohno, Tsuneya
; APPLICANT: Matsuhisa, Akio
; APPLICANT: Uehara, Hirotsugu
; APPLICANT: Eda, Soji
; TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago

STATE: Illinois
COUNTRY: United States of America
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/921,177
FILING DATE: 29-AUG-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,577
FILING DATE: 27-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Rin-Laures, Li-Hsien
REGISTRATION NUMBER: 33,547
REFERENCE/DOCKET NUMBER: 19036/32420
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312/474-6300
TELEFAX: 312/474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 6317 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: Genomic DNA
ORIGINAL SOURCE:
ORGANISM: Enterobacter cloacae
STRAIN: Clinical Isolate Et-12
US-08-921-177-21

Query Match 83.3%; Score 15; DB 1; Length 6317;
Best Local Similarity 100.0%; Pred. No. 99;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GCGGCCGACATCATC 16
|||||
Db 6178 GCGGCCGACATCATC 6164

RESULT 10
US-08-362-577C-21/c
; Sequence 21, Application US/08462577C
; Patent No. 5807673
; GENERAL INFORMATION:
; APPLICANT: Ohno, Tsuneya
; APPLICANT: Matsuhisa, Akio
; APPLICANT: Uehara, Hirotsugu
; APPLICANT: Eda, Soji
; TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
; NUMBER OF SEQUENCES: 25
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 6300 Sears Tower, 233 South Wacker Drive
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/362,577C
; FILING DATE: 27-MAR-1995
; CLASSIFICATION: 536
; ATTORNEY/AGENT INFORMATION:
; NAME: Rin-Laures, Li-Hsien

```

:      REGISTRATION NUMBER: 33,547
:      REFERENCE/DOCKET NUMBER: 19036/32420
:      TELECOMMUNICATION INFORMATION:
:      TELEPHONE: 312/474-6300
:      TELEFAX: 312/474-0448
:      TELEX: 25-3856
:      INFORMATION FOR SEQ ID NO: 21:
:      SEQUENCE CHARACTERISTICS:
:      LENGTH: 6317 base pairs
:      TYPE: nucleic acid
:      STRANDEDNESS: double
:      TOPOLOGY: linear
:      MOLECULE TYPE: Genomic DNA
:      ORGANISM: Enterobacter cloacae
:      STRAIN: Clinical isolate ET-12
:      US-08-362-577c-21

Query Match      83.3%; Score 15; DB 1; Length 6317;
Best Local Similarity 100.0%; Pred. No. 99;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GCGGCCGACATCATTG 16
        |||
Db      6178 GCGGCCGACATCATTG 6164

RESULT 11
US-08-920-828-21/c
: Sequence 21, Application US/08920828
: Patent No. 5853998
: GENERAL INFORMATION:
: APPLICANT: Ohno, Tsuneya
: APPLICANT: Matsuhisa, Akio
: APPLICANT: Uehara, Hirotsugu
: APPLICANT: Eda, Soji
: TITLE OF INVENTION: Probe for Diagnosing Infectious Disease
: NUMBER OF SEQUENCES: 25
: CORRESPONDENCE ADDRESS:
: ADDRESSER: Marshall, O'Toole, Gerstein, Murray & Borun
: STREET: 6300 Sears Tower, 233 South Wacker Drive
: CITY: Chicago
: STATE: Illinois
: COUNTRY: United States of America
: ZIP: 60606-6402
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: PatentIn Release #1.0, Version #1.25
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/920,828
: FILING DATE: 29-AUG-1997
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: US 08/362,577
: FILING DATE: 27-MAR-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Rin-Laures, Li-Hsien
: REGISTRATION NUMBER: 33,547
: REFERENCE/DOCKET NUMBER: 19036/32420
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 312/474-6300
: TELEFAX: 312/474-0448
: TELEX: 25-3856
: INFORMATION FOR SEQ ID NO: 21:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 6317 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: MOLECULE TYPE: Genomic DNA
: ORIGINAL SOURCE:
```

```

:      ORGANISM: Enterobacter cloacae
:      STRAIN: Clinical isolate ET-12
:      US-08-920-828-21

Query Match      83.3%; Score 15; DB 2; Length 6317;
Best Local Similarity 100.0%; Pred. No. 99;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2 GCGGCCGACATCATTG 16
        |||
Db      6178 GCGGCCGACATCATTG 6164

RESULT 12
US-09-177-650-114
: Sequence 114, Application US/09177650
: Patent No. 6413719
: GENERAL INFORMATION:
: APPLICANT: Leppert, Mark F.
: APPLICANT: Singh, Nanda
: APPLICANT: Charlier, Carole
: TITLE OF INVENTION: KCMQ2 AND KCMQ3 - POTASSIUM CHANNEL GENES WHICH ARE
: TITLE OF INVENTION: MUTATED IN BENIGN FAMILIAL NEONATAL CONVULSIONS (BFNC)
: FILE REFERENCE: 2323-134
: CURRENT APPLICATION NUMBER: US/09/177,650
: CURRENT FILING DATE: 1998-10-23
: EARLIER APPLICATION NUMBER: 60/063,147
: EARLIER FILING DATE: 1997-10-24
: NUMBER OF SEQ ID NOS: 129
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 114
: LENGTH: 636
: TYPE: DNA
: ORGANISM: Homo sapiens
: US-09-177-650-114

Query Match      87.2%; Score 14.8; DB 4; Length 636;
Best Local Similarity 4.9%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GCGGCCGACATCATTG 18
        |||
Db      427 GCGGCCGACATCATTG 444

RESULT 13
US-08-628-039-9/c
: Sequence 9, Application US/08628039
: Patent No. 5942660
: GENERAL INFORMATION:
: APPLICANT: Gruys, Kenneth J.
: APPLICANT: Minsky, Timothy A.
: APPLICANT: Kishore, Ganesh M.
: APPLICANT: Slater, Steven C.
: APPLICANT: Padgett, Stephen R.
: APPLICANT: Stark, David M.
: APPLICANT: Hinchee, Maud A. W.
: APPLICANT: Clemente, Thomas E.
: APPLICANT: Connor-Ward, Dannelle V.
: APPLICANT: Fedele, Mary J.
: APPLICANT: Fry, Joyce E.
: APPLICANT: Howe, Arlene R.
: TITLE OF INVENTION: Methods of Optimizing Substrate Pools and
: TITLE OF INVENTION: Biosynthesis of Poly-B-hydroxybutyrate-co-poly-B-hydroxyval
: NUMBER OF SEQUENCES: 11
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Gary M. Bond, Monsanto Company, A35B
: STREET: 800 No. 5942660th Lindbergh Boulevard
: CITY: St. Louis
: STATE: Missouri
```

```

?
? COUNTRY: USA
? ZIP: 63167
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/628,039
? FILING DATE:
? CLASSIFICATION: 435
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER:
? FILING DATE: 13-MAR-1996
? ATTORNEY/AGENT INFORMATION:
? NAME: Bond, Gary
? REGISTRATION NUMBER: 29,283
? REFERENCE/DOCKET NUMBER: 38-21(13585)A
? TELECOMMUNICATION INFORMATION:
? TELEPHONE: (314)694-3412
? TELEFAX: (314)695-5435
? INFORMATION FOR SEQ ID NO: 9:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1185 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: double
? TOPOLOGY: Linear
? MOLECULE TYPE: DNA (genomic)
? US-08-628-039-9
?
? Query Match 82.2%: Score 14.8; DB 2; Length 1185;
? Best Local Similarity 88.9%; Pred. No. 1.3e+02;
? Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
?
? QY 1 CGCGCCGACATCATCGC 18
? 11111111111111111111
? Db 154 CGTGGCCGACATCGTCGC 137
?
? RESULT 14
? US-08-912-205-9/C
? Sequence 9, Application US/08912205
? Patent No. 6091002
? GENERAL INFORMATION:
? APPLICANT: Astrak, Jawed
? APPLICANT: Misky, Timothy A.
? APPLICANT: Shah, Devang T.
? TITLE OF INVENTION: Polyhydroxyalkanoates of narrow molecular
? weight distribution prepared in transgenic plants
? NUMBER OF SEQUENCES: 11
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/08/912,205
? FILING DATE:
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: US 08/673,388
? FILING DATE: 28-JUN-1996
? INFORMATION FOR SEQ ID NO: 9:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1185 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: double
? TOPOLOGY: Linear
? MOLECULE TYPE: DNA (genomic)
? US-08-912-205-9
?
? Query Match 82.2%: Score 14.8; DB 3; Length 1185;
? Best Local Similarity 88.9%; Pred. No. 1.3e+02;

```

```

? Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
?
? QY 1 CGCGCCGACATCATCGC 18
? 11111111111111111111
? Db 154 CGTGGCCGACATCGTCGC 137
?
? RESULT 15
? US-09-440-400-9/C
? Sequence 9, Application US/09440400
? Patent No. 6228623
? GENERAL INFORMATION:
? APPLICANT: Astrak, Jawed
? APPLICANT: Misky, Timothy A.
? APPLICANT: Shah, Devang T.
? TITLE OF INVENTION: Polyhydroxyalkanoates of narrow molecular
? weight distribution prepared in transgenic plants
? NUMBER OF SEQUENCES: 11
? COMPUTER READABLE FORM:
? MEDIUM TYPE: Floppy disk
? COMPUTER: IBM PC compatible
? OPERATING SYSTEM: PC-DOS/MS-DOS
? SOFTWARE: Patentin Release #1.0, Version #1.30 (EPO)
? CURRENT APPLICATION DATA:
? APPLICATION NUMBER: US/09/440,400
? FILING DATE:
? CLASSIFICATION:
? PRIOR APPLICATION DATA:
? APPLICATION NUMBER: 08/912,205
? FILING DATE:
? INFORMATION FOR SEQ ID NO: 9:
? SEQUENCE CHARACTERISTICS:
? LENGTH: 1185 base pairs
? TYPE: nucleic acid
? STRANDEDNESS: double
? TOPOLOGY: Linear
? MOLECULE TYPE: DNA (genomic)
? US-09-440-400-9
?
? Query Match 82.2%: Score 14.8; DB 4; Length 1185;
? Best Local Similarity 88.9%; Pred. No. 1.3e+02;
? Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
?
? QY 1 CGCGCCGACATCATCGC 18
? 11111111111111111111
? Db 154 CGTGGCCGACATCGTCGC 137
?
? Search completed: February 18, 2003, 02:18:22
? Job time : 1906.22 secs

```

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 96.2091 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-21
Perfect score: 18 CGCGCCGACATCATCGC 18
Sequence: 1

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 254661826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Published_Applications_NA:*
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	15.4	85.6	2842	9	US-09-736-457-1800
2	15.4	85.6	2842	9	US-09-902-941-1800
3	15.4	85.6	2842	9	US-09-849-626-1800
4	15.4	85.6	2842	10	US-09-986-632-7
5	14.8	82.2	147	10	US-09-969-373-1.8
6	14.8	82.2	600	9	US-09-938-842A-1176
7	14.8	82.2	687	10	US-09-780-717-30
8	14.8	82.2	1185	9	US-09-364-847-52
9	14.8	82.2	1185	9	US-09-942-891-9
10	14.8	82.2	1214	10	US-09-780-717-28
11	14.8	82.2	1275	9	US-09-894-844-112
12	14.8	82.2	1422	10	US-09-974-300-2024
13	14.8	82.2	1929	9	US-09-364-847-58
14	14.8	82.2	1929	9	US-09-364-847-60
15	14.8	82.2	2088	9	US-09-738-626-1759
16	14.8	82.2	3287	9	US-10-128-870-19
17	14.4	80.0	350	10	US-09-974-300-3119
18	14.4	80.0	932	12	US-10-078-929-65
19	14.4	80.0	2139	10	US-09-815-242-9961

C 20	14.4	80.0	2568	10	US-09-815-242-7832	Sequence 7832, Ap
C 21	14.4	80.0	3285	10	US-09-833-381-877	Sequence 877, Ap
C 22	14.4	80.0	3463	9	US-10-128-853-1	Sequence 1, Appl1
C 23	14.4	80.0	3500	10	US-09-824-258-7	Sequence 7, Appl1
C 24	14.4	80.0	4803	10	US-09-824-258-1	Sequence 1, Appl1
C 25	14.4	80.0	4803	10	US-09-824-258-3	Sequence 3, Appl1
C 26	14.4	80.0	38155	9	US-10-114-170-79	Sequence 79, Appl1
C 27	14	77.8	315	10	US-09-864-761-19660	Sequence 19660, A
C 28	14	77.8	630	10	US-09-867-550-1527	Sequence 1527, Ap
C 29	14	77.8	916	10	US-09-974-300-532	Sequence 532, Ap
C 30	14	77.8	1365	10	US-09-974-300-229	Sequence 229, Ap
C 31	14	77.8	7808	9	US-10-114-170-247	Sequence 247, Ap
C 32	13.8	76.7	148	10	US-09-864-761-28283	Sequence 28283, A
C 33	13.8	76.7	235	10	US-09-923-876-2834	Sequence 2834, Ap
C 34	13.8	76.7	236	10	US-09-923-876-2480	Sequence 2480, Ap
C 35	13.8	76.7	244	10	US-09-923-876-2055	Sequence 2055, Ap
C 36	13.8	76.7	246	10	US-09-923-876-5907	Sequence 5907, Ap
C 37	13.8	76.7	249	10	US-09-923-876-938	Sequence 938, Ap
C 38	13.8	76.7	250	10	US-09-923-876-1701	Sequence 1701, Ap
C 39	13.8	76.7	253	10	US-09-923-876-1020	Sequence 1020, Ap
C 40	13.8	76.7	264	10	US-09-923-876-5872	Sequence 5872, Ap
C 41	13.8	76.7	270	10	US-09-923-876-2272	Sequence 2272, Ap
C 42	13.8	76.7	272	10	US-09-923-876-5829	Sequence 5829, Ap
C 43	13.8	76.7	322	10	US-09-878-574-1959	Sequence 1959, Ap
C 44	13.8	76.7	392	10	US-09-878-574-437	Sequence 437, Ap
C 45	13.8	76.7	402	9	US-09-712-363-132	Sequence 132, Ap

ALIGNMENTS

RESULT 1
US-09-736-457-1800
; Sequence 1800, Application US/09736457
; Patent No. US20020168637A
; GENERAL INFORMATION:
; APPLICANT: Wang, Jionglong
; APPLICANT: Banquer, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darrick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736.457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1800
; LENGTH: 2842
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-736-157-1800
Query Match 85.6%; Score 15.4; DB 9; Length 2842;
Best Local Similarity 94.1%; Pred. No. 43;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 2 CGCGCCGACATCATCGC 18
Db 928 CGAGCCGACATCATCGC 944
RESULT 2
US-09-902-941-1800
; Sequence 1800, Application US/09902941
; Patent No. US20020172952A1
; GENERAL INFORMATION:

```
; LENGTH: 1214
; TYPE: DNA
; ORGANISM: Oryza sativa
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (124)..(810)
US-09-780-717-28

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 1214;
Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGCGGCCGACATCATCGC 18
Db 768 CGCGCTCGACATCATCGC 785

RESULT 11
US-09-894-844-112
; Sequence 112, Application US/09894844
; Patent No. US20020176873A1
; GENERAL INFORMATION:
; APPLICANT: Behr, Marcel
; APPLICANT: Small, Peter
; APPLICANT: Schoolnik, Gary
; APPLICANT: Wilson, Michael A.
; TITLE OF INVENTION: Molecular Differences Between Species of
; FILE REFERENCE: STAN102CON
; CURRENT APPLICATION NUMBER: US/09/894,844
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: 09/318,191
; PRIOR FILING DATE: 1999-05-25
; PRIOR APPLICATION NUMBER: 60/097,936
; PRIOR FILING DATE: 1998-08-25
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 112
; LENGTH: 1275
; TYPE: DNA
; ORGANISM: M. tuberculosis
US-09-894-844-112

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 9; Length 1275;
Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGCGGCCGACATCATCGC 18
Db 816 CGCGGCCGACATCATCGC 833

RESULT 12
US-09-974-300-2024/c
; Sequence 2024, Application US/09974300
; Patent No. US20020146721A1
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, ID Groth
; TITLE OF INVENTION: Methods for Monitoring Multiple Gene
; FILE REFERENCE: 10085,500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2024
; LENGTH: 1422
; TYPE: DNA
```

```
; ORGANISM: Bacillus licheniformis
US-09-974-300-2024

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 10; Length 1422;
Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGCGGCCGACATCATCGC 18
Db 206 CGCGCTCATATCATCGC 189

RESULT 13
US-09-364-847-58/c
; Sequence 58, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalte W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 58
; LENGTH: 1929
; TYPE: DNA
; ORGANISM: Ralstonia eutropha
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(1929)
; OTHER INFORMATION: bklB-linker-phbB fusion gene
US-09-364-847-58

Query Match
Best Local Similarity 82.2%; Score 14.8; DB 9; Length 1929;
Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGCGGCCGACATCATCGC 18
Db 154 CGCGGCCGACATCATCGC 147

RESULT 14
US-09-364-847-60/c
; Sequence 60, Application US/09364847
; Patent No. US20020173019A1
; GENERAL INFORMATION:
; APPLICANT: Peoples, Oliver P
; APPLICANT: Madison, Lara L
; APPLICANT: Huisman, Gjalte W
; TITLE OF INVENTION: Enzymes for Biopolymer Production
; FILE REFERENCE: MBX 030
; CURRENT APPLICATION NUMBER: US/09/364,847
; CURRENT FILING DATE: 1999-07-30
; EARLIER APPLICATION NUMBER: 60/094,674
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 61
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 60
; LENGTH: 1929
; TYPE: DNA
; ORGANISM: Ralstonia eutropha
; FEATURE:
; NAME/KEY: gene
; LOCATION: (1)..(1929)
; OTHER INFORMATION: phbB-linker-bktB fusion gene
US-09-364-847-60
```


Query Match 82.2%; Score 14.8; DB 9; length 1929;
Best Local Similarity 88.9%; Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 CGCGCGCGACATCATCGC 18
|| |||||
DB 898 CGTGGCGCGACATCGTCGC 881

RESULT 15

US-09-738-626-1759
; Sequence 1759, Application US/09738626
; Publication No. US20020197605A1
; GENERAL INFORMATION:
; APPLICANT: NAKAGAWA, SATOSHI
; APPLICANT: MIZOGUCHI, HIROSHI
; APPLICANT: ANDO, SEIKO
; APPLICANT: HAYASHI, MIKIRO
; APPLICANT: OCHIAI, KEIKO
; APPLICANT: YOKOI, HARUHIKO
; APPLICANT: TATEISHI, NAOKO
; APPLICANT: SENOH, AKIHIRO
; APPLICANT: IKEDA, MASATO
; APPLICANT: OZAKI, AKIO
; TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
; FILE REFERENCE: 249-125
; CURRENT APPLICATION NUMBER: US/09/738,626
; CURRENT FILING DATE: 2000-12-18
; PRIOR APPLICATION NUMBER: JP 99/377484
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: JP 00/159162
; PRIOR FILING DATE: 2000-04-07
; PRIOR APPLICATION NUMBER: JP 00/280988
; PRIOR FILING DATE: 2000-08-03
; NUMBER OF SEQ ID NOS: 7059
; SOFTWARE: PatentIn ver. 3.0
; SEQ ID NO: 1759
; LENGTH: 2088
; TYPE: DNA
; ORGANISM: Corynebacterium glutamicum
US-09-738-626-1759

Query Match 82.2%; Score 14.8; DB 9; length 2088;
Best Local Similarity 88.9%; Pred. No. 86;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1 CGCGCGCGACATCATCGC 18
|| |||||
DB 765 CGACGCGCGACATCATCGC 782

Search completed: February 18, 2003, 07:09:33
Job time : 97.2091 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 29.1289 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-22

Perfect score: 20
Sequence: 1 GGCCGACATCATCGCTTCCC 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents.NA:*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCITUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	20	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
2	16.8	84.0	4411529	4 US-09-103-840A-1	Sequence 1, Appli
3	16.4	82.0	33529	4 US-09-144-085-3	Sequence 3, Appli
4	15.2	76.0	2758	4 US-09-221-017B-441	Sequence 441, App
5	15.2	76.0	8501	3 US-08-793-900-1	Sequence 1, Appli
6	15.2	76.0	50341	1 US-08-247-901C-1	Sequence 1, Appli
7	15.2	76.0	50341	2 US-09-075-904-1	Sequence 1, Appli
8	15.2	76.0	52297	4 US-09-426-436-1	Sequence 1, Appli
9	15.2	76.0	52297	4 US-08-705-557-1	Sequence 1, Appli
10	14.8	74.0	5410	4 US-09-221-017B-70	Sequence 70, Appli
11	14.4	72.0	1610	4 US-09-276-531-56	Sequence 56, Appli
12	14.4	72.0	2821	4 US-09-221-017B-49	Sequence 49, Appli
13	14.4	72.0	7808	4 US-09-451-702B-2	Sequence 247, App
14	14.4	72.0	43676	3 US-09-356-952-12	Sequence 12, Appli
15	14.4	72.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
16	14.2	71.0	189	2 US-08-530-569B-20	Sequence 20, Appli
17	14.2	71.0	261	5 PCT-US95-06119-2	Sequence 2, Appli
18	14.2	71.0	384	1 US-08-726-136-21	Sequence 21, Appli
19	14.2	71.0	384	3 US-09-103-434-21	Sequence 21, Appli
20	14.2	71.0	384	4 US-09-687-594-21	Sequence 21, Appli
21	14.2	71.0	384	4 US-09-199-637A-16	Sequence 16, Appli
22	14.2	71.0	519	2 US-08-581-528A-5	Sequence 5, Appli
23	14.2	71.0	519	2 PCT-US94-07799-5	Sequence 5, Appli
24	14.2	71.0	567	4 US-08-530-569B-18	Sequence 18, Appli
25	14.2	71.0	657	4 US-09-199-637A-14	Sequence 14, Appli
26	14.2	71.0	657	4 US-09-199-637A-14	Sequence 14, Appli
27	14.2	71.0	657	4 US-09-199-637A-14	Sequence 14, Appli

28	14.2	71.0	724	4 US-09-221-017B-719	Sequence 719, App
29	14.2	71.0	842	1 US-08-998-416-312	Sequence 312, App
30	14.2	71.0	1203	1 US-08-362-670B-29	Sequence 29, Appli
31	14.2	71.0	1203	3 US-08-333-576C-29	Sequence 29, Appli
32	14.2	71.0	1203	4 US-08-808-324-29	Sequence 29, Appli
33	14.2	71.0	1203	5 PCT-US94-14030A-29	Sequence 29, Appli
34	14.2	71.0	1758	4 US-08-965-762-6	Sequence 6, Appli
35	14.2	71.0	2040	3 US-08-604-789B-1	Sequence 1, Appli
36	14.2	71.0	2040	4 US-08-604-789B-12	Sequence 12, Appli
37	14.2	71.0	2040	3 US-09-312-721A-1	Sequence 1, Appli
38	14.2	71.0	2040	4 US-09-312-721A-12	Sequence 12, Appli
39	14.2	71.0	2051	2 US-08-530-569B-13	Sequence 13, Appli
40	14.2	71.0	2369	2 US-08-883-534-4	Sequence 4, Appli
41	14.2	71.0	2369	3 US-09-204-764-4	Sequence 4, Appli
42	14.2	71.0	2574	2 US-08-677-734A-8	Sequence 8, Appli
43	14.2	71.0	2574	4 US-09-097-053-8	Sequence 8, Appli
44	14.2	71.0	2807	4 US-09-453-702B-51	Sequence 51, Appli
45	14.2	71.0	3141	4 US-09-199-637A-12	Sequence 12, Appli

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 19-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: Patentln Ver. 2.1
; SEQ ID NO: 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match          100.0%; Score 20; DB 4; Length 4403765;
Best local similarity 100.0%; Pred. No. 0.72;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGCCGACATCATCGCTTCCC 20
Db 3082675 GGCCGACATCATCGCTTCCC 3082656

RESULT 2
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
```

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 100.0%; Score 20; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 0.72;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GCGCGACATCATCGCTTCCC 20
Db 3087992 GCGCGACATCATCGCTTCCC 3087973

RESULT 3
US-09-103-840A-1
Sequence 1, Application US/09103840A
Patent No. 6294328
GENERAL INFORMATION:
APPLICANT: FLEISCHMAN, Robert D.
APPLICANT: WHITE, Owen R.
APPLICANT: FRASER, Claire M.
APPLICANT: VENTER, John C.
TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
FILE REFERENCE: 24366-20007.00
CURRENT APPLICATION NUMBER: US/09/103,840A
CURRENT FILING DATE: 1998-06-24
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 84.0%; Score 16.8; DB 4; Length 4411529;
Best Local Similarity 90.0%; Pred. No. 25;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCGCGACATCATCGCTTCCC 20
Db 3081155 GCGCGCTCTCATCGCTTCCC 3081174

RESULT 4
US-09-144-085-3/C
Sequence 3, Application US/09144085
Patent No. 6280999
GENERAL INFORMATION:
APPLICANT: Gustafsson, Claes
APPLICANT: Bellach, Mary C.
APPLICANT: Ashley, Gary
APPLICANT: Julien, Bryan
APPLICANT: Zietmann, Rainer
TITLE OF INVENTION: SORANGIUM POLYKETIDE SYNTHASES AND ENCODING DNA
FILE REFERENCE: 30062-20020.20
CURRENT APPLICATION NUMBER: US/09/144,085
CURRENT FILING DATE: 1998-08-31
EARLIER APPLICATION NUMBER: 09/010,809
EARLIER FILING DATE: 1998-01-22
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3
LENGTH: 33529
TYPE: DNA
ORGANISM: Sorangium cellulosum
US-09-144-085-3

Query Match 82.0%; Score 16.4; DB 4; Length 33529;
Best Local Similarity 94.4%; Pred. No. 26;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCGCGACATCATCGCTTC 18
Db 27636 GCGCGACATCATCGCTTC 27619

RESULT 5
US-09-221-017B-441/C
Sequence 441, Application US/09221017B
Patent No. 6444799
GENERAL INFORMATION:
APPLICANT: Ross, Bruce C.
TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 1120
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221,017B
FILING DATE: 23-DEC-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1182
FILING DATE: 31-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 11546
FILING DATE: 30-JAN-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP2911
FILING DATE: 09-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU98/01023
FILING DATE: 10-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: MONROY, Gladys H
REGISTRATION NUMBER: 32,430
REFERENCE/DOCKET NUMBER: 27340-20021.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 441:
SEQUENCE CHARACTERISTICS:
LENGTH: 2758 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: UNKNOWN
ORIGINAL SOURCE:
ORGANISM: PORPHYROMONAS GINGIVALIS
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1...2758
US-09-221-017B-441

Query Match 76.0%; Score 15.2; DB 4; Length 2758;
Best Local Similarity 85.0%; Pred. No. 75;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

RESULT 8
US-09-075-904-1/C
Sequence 1, Application US/09075904
Patent No. 5994137
GENERAL INFORMATION:
APPLICANT: Jacobs, et al.
TITLE OF INVENTION: L5 SHUTTLE PHASMWIDS
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amster, Rothstein & Ebenstein
STREET: 90 Park Avenue
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10016
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch 1.44 Mb storage diskette
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Word Processor (ASCII)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/075,904
FILING DATE: May 11, 1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/247,901
FILING DATE: May 23, 1994
ATTORNEY/AGENT INFORMATION:
NAME: Bogosian, Elizabeth A
REGISTRATION NUMBER: 39,911
REFERENCE/DOCKET NUMBER: 96700/475
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 286-0854 or 286-0082
TELEFAX: TWX 710-581-4766
TELEX: TWX 710-581-4766
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 50341
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION: L5 shuttle phasmid sequence
HYPOTHETICAL: NO
ANTI-SENSE:
FRAGMENT TYPE:
ORIGINAL SOURCE:
ORGANISM: L5 mycobacteriophage
STRAIN:
INDIVIDUAL ISOLATE:
DEVELOPMENTAL STAGE:
HAPLOTYPE:
TISSUE TYPE:
CELL LINE:
ORGANELLE:
IMMEDIATE SOURCE:
POSITION IN GENOME:
CHROMOSOME/SEGMENT:
FEATURE:
NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
PUBLICATION INFORMATION: NO. 5994137e
AUTHORS:
TITLE:
JOURNAL:
VOLUME:
PAGES:
DATE:

DOCUMENT NUMBER:
FILING DATE:
PUBLICATION DATE:
RELEVANT RESIDUES IN SEQ ID NO:
US-09-075-904-1
Query Match 76.0%; Score 15.2; DB 2; Length 50341;
Best Local Similarity 85.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
DB 8578 GGCCGACATCATCTTCC 8559
OY 1 GGCCGACATCATCTTCC 20
Db 8578 GGCCGACATCATCTTCC 8559
RESULT 9
US-09-426-436-1/C
Sequence 1, Application US/09426436
Patent No. 6225066
GENERAL INFORMATION:
APPLICANT: William R. Jacobs, Jr.
APPLICANT: Barry R. Bloom
APPLICANT: Graham F. Halfall
TITLE OF INVENTION: MYCOBACTERIAL SPECIES-SPECIFIC
REPORTER MYCOBACTERIOPHAGES
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amster, Rothstein & Ebenstein
STREET: 90 Park Avenue
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10016
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch 1.44 Mb storage diskette
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Word Processor (ASCII)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/426,436
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/705,557
FILING DATE:
APPLICATION NUMBER: US/08/057,531
FILING DATE:
APPLICATION NUMBER: 07/843,431
FILING DATE: February 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Pasqualini, Patricia A.
REGISTRATION NUMBER: 34,894
REFERENCE/DOCKET NUMBER: 96700/238
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 697-5995
TELEFAX: (212) 286-0854 or 286-0082
TELEX: TWX 710-581-4766
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 52297
TYPE: nucleotide
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION: phage genome sequence
HYPOTHETICAL: no
ANTI-SENSE: no
FRAGMENT TYPE: not applicable.
ORIGINAL SOURCE:
ORGANISM: mycobacteriophage L5
STRAIN: not applicable
INDIVIDUAL ISOLATE: L5
DEVELOPMENTAL STAGE: not applicable

HAPOTYPE: not applicable
TISSUE TYPE: not applicable
CELL TYPE: not applicable
CELL LINE: not applicable
ORGANELLE: not applicable
IMMEDIATE SOURCE: mycobacteriophage L5 particles
POSITION IN GENOME: entire genome
FEATURE:
NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS: Hatfull and Sarkis
TITLE: DNA Sequence, Structure and Gene
TITLE: Expression of Mycobacteriophage L5:
TITLE: A Phage System for Mycobacterial
TITLE: Genetics
JOURNAL: Molecular Microbiology
VOLUME: 7
PAGES: 395-405
DATE: 1993
US-09-426-436-1

Query Match 76.0%; Score 15.2; DB 4; Length 52297;
Best Local Similarity 85.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GGGCGATCATCGCTTCCC 20
DB 8475 GGGCGATCATCTCTTCTC 8456

RESULT 10
US-08-705-557-1/c
Sequence 1, Application US/08705557
Patent No. 6300061
GENERAL INFORMATION:
APPLICANT: William R. Jacobs, Jr.
APPLICANT: Barry R. Bloom
APPLICANT: Graham F. Hatfull
TITLE OF INVENTION: MYCOBACTERIAL SPECIES-SPECIFIC
TITLE OF INVENTION: REPORTER MYCOBACTERIOPHAGES
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
ADDRESSEE: Amster, Rothstein & Ebenstein
STREET: 90 Park Avenue
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10016
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch 1.44 Mb storage diskette
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Word Processor (ASCII)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/705,557
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/057,531
FILING DATE:
APPLICATION NUMBER: 07/833,431
FILING DATE: February 7, 1992
ATTORNEY/AGENT INFORMATION:
NAME: Pasqualini, Patricia A.
REGISTRATION NUMBER: 34,894
REFERENCE/DOCKET NUMBER: 96700/238
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 687-5995
TELEFAX: (212) 286-0854 or 286-0082
TELEX: TWX 710-581-4766

INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 52297
TYPE: nucleotide
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE:
DESCRIPTION: phage genome sequence
HYPOETHERICAL: no
ANTI-SENSE: no
FRAGMENT TYPE: not applicable.
ORIGINAL SOURCE:
ORGANISM: mycobacteriophage L5
STRAIN: not applicable
INDIVIDUAL ISOLATE: L5
DEVELOPMENTAL STAGE: not applicable
HAPOTYPE: not applicable
TISSUE TYPE: not applicable
CELL TYPE: not applicable
CELL LINE: not applicable
ORGANELLE: not applicable
IMMEDIATE SOURCE: mycobacteriophage L5 particles
POSITION IN GENOME: entire genome
FEATURE:
NAME/KEY:
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
PUBLICATION INFORMATION:
AUTHORS: Hatfull and Sarkis
TITLE: DNA Sequence, Structure and Gene
TITLE: Expression of Mycobacteriophage L5:
TITLE: A Phage System for Mycobacterial
TITLE: Genetics
JOURNAL: Molecular Microbiology
VOLUME: 7
PAGES: 395-405
DATE: 1993
US-08-705-557-1

Query Match 76.0%; Score 15.2; DB 4; Length 52297;
Best Local Similarity 85.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GGGCGATCATCGCTTCCC 20
DB 8475 GGGCGATCATCTCTTCTC 8456

RESULT 11
US-09-221-017B-70
Sequence 70, Application US/09221017B
Patent No. 6444799
GENERAL INFORMATION:
APPLICANT: Ross, Bruce C.
TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 1120
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & FOERSTER
STREET: 755 PAGE MILL ROAD
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221,017B
FILING DATE: 23-DEC-1998
CLASSIFICATION:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1182
FILING DATE: 31-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1546
FILING DATE: 30-JAN-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP2911
FILING DATE: 09-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU98/01023
FILING DATE: 10-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: Monroy, Gladys H
REGISTRATION NUMBER: 32,430
REFERENCE/DOCKET NUMBER: 27340-20021.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 70:
SEQUENCE CHARACTERISTICS:
LENGTH: 5410 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: UNKNOWN
ORGANISM: PORPHYROMONAS GINGIVALIS
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1...5410
US-09-221-017B-70

Query Match 74.0%; Score 14.8; DB 4; Length 5410;
Best Local Similarity 88.9%; Pred. No. 1.3e+02;
Matches 16: Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 2 GCCGACATCATGCTTCC 19
||||| |||||||||

Db 2510 GCCGAGTCATGCTTCC 2527

RESULT 12
US-09-276-531-56
Sequence 56, Application US/09276531
Patent No. 6183968
GENERAL INFORMATION:
APPLICANT: Bandman, Olga
APPLICANT: Lal, Preeti
APPLICANT: Hillman, Jennifer L.
APPLICANT: Yue, Henry
APPLICANT: Reddy, Roopa
APPLICANT: Guegler, Karl J.
TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF GENES ENCODING
TITLE OF INVENTION: RECEPTORS AND PROTEINS ASSOCIATED WITH CELL PROLIFERATION
NUMBER OF SEQUENCES: 134
CORRESPONDENCE ADDRESS:
ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/276,531
FILING DATE: Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/079,677
FILING DATE: March 27, 1998
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Lynn E. Murry, Ph.D.
REGISTRATION NUMBER: 42,918
REFERENCE/DOCKET NUMBER: PA-0008 US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO: 56:
SEQUENCE CHARACTERISTICS:
LENGTH: 1610 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: BRATTUT08
CLONE: 1396833
US-09-276-531-56

Query Match 72.0%; Score 14.4; DB 4; Length 1610;
Best Local Similarity 93.8%; Pred. No. 1.8e+02;
Matches 15: Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 GACATCATGCTTCC 20
||||| |||||||

Db 488 GACATCATGCTTCC 503

RESULT 13
US-09-221-017B-493/c
Sequence 493, Application US/09221017B
Patent No. 6444799
GENERAL INFORMATION:
APPLICANT: Koss, Bruce C.
TITLE OF INVENTION: P. GINGIVALIS NUCLEOTIDES AND USES THEREOF
NUMBER OF SEQUENCES: 1120
CORRESPONDENCE ADDRESS:
ADDRESSEE: MORRISON & EVERSTER
STREET: 755 PAGE MILL ROAD
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/221,017B
FILING DATE: 23-DEC-1998
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1182
FILING DATE: 31-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP1546
FILING DATE: 30-JAN-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PP2911
FILING DATE: 09-APR-1998
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/AU98/01023
FILING DATE: 10-DEC-1998
ATTORNEY/AGENT INFORMATION:
NAME: Monroy, Gladys H
REGISTRATION NUMBER: 32,430

```
REFERENCE/DOCKET NUMBER: 27340-20021.00
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-813-5600
TELEFAX: 650-494-0792
TELEX: 706141
INFORMATION FOR SEQ ID NO: 493:
SEQUENCE CHARACTERISTICS:
LENGTH: 2821 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
HYPOTHEETICAL: NO
ANTI-SENSE: UNKNOWN
ORIGINAL SOURCE:
ORGANISM: PORPHYROMONAS GINGIVALIS
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1...2821
US-09-221-017B-493

Query Match
Best Local Similarity 72.0%; Score 14.4; Db 4; Length 2821;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGACATCATCGCT 16
db 662 GCGCGACATCATCGCT 647

RESULT 14
US-09-453-702B-247
Sequence 247, Application US/09453702B
Patent No. 6365723
GENERAL INFORMATION:
APPLICANT: Blatner, Frederick R.
Burland, Valerie
Perna, Nicole T.
Plunkett, Guy
Welch, Rod
TITLE OF INVENTION: No. 6365723el Sequences of E. coli O157
NUMBER OF SEQUENCES: 265
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Quatles & Brady
STREET: 1 South Plunkney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53701-2113
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 8.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/453,702B
FILING DATE: 03-Dec-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/110,955
FILING DATE: 04-Dec-1998
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296, 95017
TELECOMMUNICATION INFORMATION:
TELEPHONE: (608) 251-5000
TELEFAX: (608) 251-9166
INFORMATION FOR SEQ ID NO: 247:
SEQUENCE CHARACTERISTICS:
LENGTH: 7808
TYPE: nucleic acid
STRANDEDNESS: double
```

```
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 247:
US-09-453-702B-247

Query Match
Best Local Similarity 72.0%; Score 14.4; Db 4; Length 7808;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGACATCATCGCT 16
db 3984 GCGCGACATCATCGCT 3999

RESULT 15
US-09-356-952-12/c
Sequence 12, Application US/09356952
Patent No. 6117663
GENERAL INFORMATION:
APPLICANT: Borjuck-Sjodin, Ann
APPLICANT: Margalit, S. M.
APPLICANT: Bor-Sogai, Dafna
APPLICANT: Cole, Philip
APPLICANT: Kurlyan, John
TITLE OF INVENTION: A CRYSTAL OF A RAS-SOS COMPLEX AND METHODS OF USE
FILE REFERENCE: 600-1-228N
CURRENT APPLICATION NUMBER: US/09/356,952
CURRENT FILING DATE: 1999-07-19
EARLIER APPLICATION NUMBER: 60/093,631
EARLIER FILING DATE: 1998-07-21
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 12
LENGTH: 43676
TYPE: DNA
ORGANISM: Saccharomyces cerevisiae
US-09-356-952-12

Query Match
Best Local Similarity 72.0%; Score 14.4; Db 3; Length 43676;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 CGACATCATCGCTTCG 19
db 34400 CGACATCATCGCTTCG 34485
```

Search completed: February 18, 2003, 03:07:32
Job time : 2979.13 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 106.899 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-22

Perfect score: 1 GGGCGACATCATCGCTTCC 20

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 424239 seqs, 25461826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

Published_Applications_NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PC1_NEM_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEM_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEM_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PC1US_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEM_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEM_PUB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US10_NEM_PUB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	15.8	79.0	1203	US-09-812-272-1
2	15.8	79.0	1203	US-10-037-616-9
3	15.2	76.0	528	US-09-974-300-6774
4	15.2	76.0	1487	US-09-984-245-79
5	15.2	76.0	1525	US-09-984-245-114
6	15.2	76.0	3151	US-10-003-132-1
7	15.2	76.0	3456	US-09-764-877-3873
8	15.2	76.0	3594	US-09-759-1308-71
9	15.2	76.0	2229	US-09-998-598-2531
10	15.2	76.0	2842	US-09-736-457-1800
11	15.2	76.0	2842	US-09-902-941-1800
12	15.2	76.0	2842	US-09-849-626-1800
13	15.2	76.0	2842	US-09-986-632-7
14	14.8	74.0	256	US-09-878-574-7271
15	14.8	74.0	264	US-09-815-343-137
16	14.8	74.0	771	US-09-815-242-7986
17	14.8	74.0	1245	US-09-974-300-7933
18	14.8	74.0	1488	US-09-738-626-1425
19	14.8	74.0	1602	US-09-801-368-161

ALIGNMENTS

20	14.8	74.0	2088	9	US-09-738-626-1759	Sequence 1759, Ap
21	14.8	74.0	2217	9	US-09-738-626-3273	Sequence 3273, Ap
22	14.8	74.0	2394	10	US-09-815-242-4016	Sequence 4016, Ap
23	14.8	74.0	3951	9	US-09-712-363-31	Sequence 31, Appl
24	14.8	74.0	309400	9	US-09-738-626-1	Sequence 1, Appl
25	14.4	72.0	177	10	US-09-770-656-301	Sequence 301, Ap
26	14.4	72.0	420	10	US-09-954-456-109	Sequence 109, Ap
27	14.4	72.0	420	10	US-09-954-456-884	Sequence 884, Ap
28	14.4	72.0	420	10	US-09-954-456-1440	Sequence 1440, Ap
29	14.4	72.0	764	10	US-09-910-943-628	Sequence 628, Ap
30	14.4	72.0	1959	9	US-09-938-842-289	Sequence 289, Ap
31	14.4	72.0	2289	9	US-09-738-626-954	Sequence 954, Ap
32	14.4	72.0	2325	10	US-09-815-242-7948	Sequence 7948, Ap
33	14.4	72.0	7808	9	US-10-114-170-247	Sequence 247, Ap
34	14.2	71.0	147	10	US-09-969-373-518	Sequence 518, Ap
35	14.2	71.0	166	9	US-10-040-739-914	Sequence 914, Ap
36	14.2	71.0	266	10	US-09-923-876-3938	Sequence 3938, Ap
37	14.2	71.0	271	10	US-09-878-876-2612	Sequence 2612, Ap
38	14.2	71.0	272	10	US-09-923-876-1396	Sequence 1396, Ap
39	14.2	71.0	280	10	US-09-923-876-4927	Sequence 4927, Ap
40	14.2	71.0	341	10	US-09-783-590-1211	Sequence 1211, Ap
41	14.2	71.0	350	10	US-09-974-300-3119	Sequence 3119, Ap
42	14.2	71.0	359	10	US-09-998-598-2030	Sequence 2030, Ap
43	14.2	71.0	363	10	US-09-960-352-2021	Sequence 2021, Ap
44	14.2	71.0	370	10	US-09-960-352-12015	Sequence 12015, A
45	14.2	71.0	384	10	US-09-815-242-6335	Sequence 6335, A

RESULT 1
US-09-812-272-1
; Sequence 1, Application US/09812272
; Patent No. US20020045214A1
; GENERAL INFORMATION:
; APPLICANT: Pamela Lane
; APPLICANT: Ping Tsui
; APPLICANT: Nabli A. Elshourbagy
; TITLE OF INVENTION: RAT G-PROTEIN COUPLED RECEPTOR AXOR29
; FILE REFERENCE: GP-70685
; CURRENT APPLICATION NUMBER: US/09/812,272
; PRIOR FILING DATE: 2001-03-20
; PRIOR APPLICATION NUMBER: 60/191,153
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 1203
; TYPE: DNA
; ORGANISM: HOMO SAPIENS
; US-09-812-272-1

Query Match 79.0%; Score 15.8; DB 10; Length 1203;
Best Local Similarity 89.5%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGCGACATCATCGCTTC 19
DB 184 GGGCGACATCATCGCTTC 202

RESULT 2
US-10-037-616-9
; Sequence 9, Application US/10037616
; Patent No. US20020123148A1
; GENERAL INFORMATION:
; APPLICANT: English, Denis
; APPLICANT: Kovacs, Richard J.
; APPLICANT: Rizzo, Maria T.
; APPLICANT: Silva, Daniel T.
; TITLE OF INVENTION: Sphingolipid Compositions and Methods for Their Therapeutic Use
; FILE REFERENCE: 7042-119

```

: CURRENT APPLICATION NUMBER: US/10/037,616
: PRIOR FILING DATE: 2002-04-19
: PRIOR APPLICATION NUMBER: US 60/243,887
: PRIOR FILING DATE: 2000-10-27
: NUMBER OF SEQ ID NOS: 27
: SOFTWARE: PatentIn version 3.1
: SEQ ID NO 9
: LENGTH: 1203
: TYPE: DNA
: ORGANISM: Rattus norvegicus
: FEATURE:
: NAME/KEY: CDS
: LOCATION: (1)..(1203)
: OTHER INFORMATION:
US-10-037-616-9

Query Match          79.0%; Score 15.8; DB 12; Length 1203;
Best Local Similarity 89.5%; Pred. No. 53;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGACATCATCGCTTCC 19
    ||||| ||||| ||||| |||||
Db 184 GCGCGACATCATCGCTTCC 202

RESULT 3
US-09-974-300-6774
: Sequence 6774, Application US/09974300
: Patent No. US20020146721A1
: GENERAL INFORMATION:
: APPLICANT: Berka, Randy M.
: APPLICANT: Clausen, Ib Groth
: TITLE OF INVENTION: Methods For Monitoring Multiple Gene
: FILE REFERENCE: 10085,500-US
: CURRENT APPLICATION NUMBER: US/09/974,300
: CURRENT FILING DATE: 2001-10-05
: PRIOR APPLICATION NUMBER: 09/680,598
: PRIOR FILING DATE: 2000-10-06
: PRIOR APPLICATION NUMBER: 60/279,526
: PRIOR FILING DATE: 2001-03-27
: NUMBER OF SEQ ID NOS: 8481
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 6774
: LENGTH: 528
: TYPE: DNA
: ORGANISM: Bacillus clausii
US-09-974-300-6774

Query Match          76.0%; Score 15.2; DB 10; Length 528;
Best Local Similarity 85.0%; Pred. No. 1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCGCGACATCATCGCTTCC 20
    ||||| || ||||| ||||| |||||
Db 488 GCGCGACATCATCGCTTCC 507

RESULT 4
US-09-984-245-79
: Sequence 79, Application US/09984245
: Patent No. US20020165374A1
: GENERAL INFORMATION:
: APPLICANT: Young et al.
: TITLE OF INVENTION: 87 Human Secreted Proteins
: FILE REFERENCE: P2004P1
: CURRENT APPLICATION NUMBER: US/09/984,245
: CURRENT FILING DATE: 2001-10-29
: PRIOR APPLICATION NUMBER: 09/154,707
: PRIOR FILING DATE: 1998-09-17
: PRIOR APPLICATION NUMBER: PCT/US98/05311
: PRIOR FILING DATE: 1998-03-19
: PRIOR APPLICATION NUMBER: US 60/041,277
```

```

: PRIOR FILING DATE: 1997-03-21
: PRIOR APPLICATION NUMBER: US 60/042,344
: PRIOR FILING DATE: 1997-03-21
: PRIOR APPLICATION NUMBER: US 60/041,276
: PRIOR FILING DATE: 1997-03-21
: PRIOR APPLICATION NUMBER: US 60/041,281
: PRIOR FILING DATE: 1997-03-21
: PRIOR APPLICATION NUMBER: US 60/048,094
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,350
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,188
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,135
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/050,937
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,187
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,099
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,352
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,186
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,069
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,095
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,131
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,096
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,355
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,160
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,351
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/048,154
: PRIOR FILING DATE: 1997-05-30
: PRIOR APPLICATION NUMBER: US 60/054,804
: PRIOR FILING DATE: 1997-08-05
: PRIOR APPLICATION NUMBER: US 60/056,370
: PRIOR FILING DATE: 1997-08-19
: PRIOR APPLICATION NUMBER: US 60/060,862
: PRIOR FILING DATE: 1997-10-02
: NUMBER OF SEQ ID NOS: 343
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 79
: LENGTH: 1487
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc.feature
: LOCATION: (78)
: OTHER INFORMATION: n equals a,t,g, or c
: NAME/KEY: misc.feature
: LOCATION: (948)
: OTHER INFORMATION: n equals a,t,g, or c
US-09-984-245-79

Query Match          76.0%; Score 15.2; DB 9; Length 1487;
Best Local Similarity 85.0%; Pred. No. 1.1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 GCGCGACATCATCGCTTCC 20
    ||||| ||||| ||||| |||||
Db 680 GCGCGACATCATCGCTTCC 699

RESULT 5
US-09-984-245-114
```

```
; Sequence 114, Application US/09984245
; Patent No. US20020165374A1
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 87 Human Secreted Proteins
; FILE REFERENCE: P2004P1
; CURRENT APPLICATION NUMBER: US/09/984,245
; CURRENT FILING DATE: 2001-10-29
; PRIOR APPLICATION NUMBER: 09/154,707
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: PCT/US98/05311
; PRIOR FILING DATE: 1998-03-19
; PRIOR APPLICATION NUMBER: US 60/041,277
; PRIOR FILING DATE: 1997-03-21
; PRIOR APPLICATION NUMBER: US 60/042,344
; PRIOR FILING DATE: 1997-03-21
; PRIOR APPLICATION NUMBER: US 60/041,276
; PRIOR FILING DATE: 1997-03-21
; PRIOR APPLICATION NUMBER: US 60/041,281
; PRIOR FILING DATE: 1997-03-21
; PRIOR APPLICATION NUMBER: US 60/048,094
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,350
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,188
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,135
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/050,937
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,187
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,099
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,352
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,186
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,069
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,095
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,131
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,096
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,355
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,160
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,351
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/048,154
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/054,804
; PRIOR FILING DATE: 1997-08-05
; PRIOR APPLICATION NUMBER: US 60/056,370
; PRIOR FILING DATE: 1997-08-19
; PRIOR APPLICATION NUMBER: US 60/060,862
; PRIOR FILING DATE: 1997-10-02
; NUMBER OF SEQ ID NOS: 343
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 114
; LENGTH: 1525
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (78)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-984-245-114
Query Match 76.0%; Score 15.2; DB ; Length 1525;
```

```
Best Local Similarity 85.0%; Pred. No. 1,1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 1 GGGCGACATCATCGCTTCCC 20
11111111111111111111
Db 680 GGGCGACATCATCGCTCCCC 699

RESULT 6
US-10-003-132-1/c
; Sequence 1, Application US/10003132
; Publication No. US20020192750A1
; GENERAL INFORMATION:
; APPLICANT: Fox, Brian A.
; APPLICANT: Gao, Zeren
; APPLICANT: Shoemaker, Kimberly E.
; TITLE OF INVENTION: NEUROPHILIN HOMOLOG 2CUB5
; FILE REFERENCE: 00-62
; CURRENT APPLICATION NUMBER: US/10/003,132
; CURRENT FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: US 60/249,004
; PRIOR FILING DATE: 2000-11-15
; NUMBER OF SEQ ID NOS: 19
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 3151
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (76)...(2223)
US-10-003-132-1

Query Match 76.0%; Score 15.2; DB 9; Length 3151;
Best Local Similarity 85.0%; Pred. No. 1,1e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 1 GGGCGACATCATCGCTTCCC 20
11111111111111111111
Db 2508 GGGCGACATCATCGATCCC 2489

RESULT 7
US-09-764-877-3823
; Sequence 3823, Application US/09764877
; Patent No. US20020147140A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC005
; CURRENT APPLICATION NUMBER: US/09/764,877
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 4031
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3823
; LENGTH: 3456
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-764-877-3823

Query Match 76.0%; Score 15.2; DB 10; Length 3456;
Best Local Similarity 85.0%; Pred. No. 1,2e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 1 GGGCGACATCATCGCTTCCC 20
11111111111111111111
Db 1267 GGGCGAATCATCAGCTTCCC 1286

RESULT 8
US-09-759-130B-71/c
; Sequence 71, Application US/09759130B
```

```
; Publication No. US20030022279A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: McCarthy, Sean A
; APPLICANT: Fraser, Christopher C
; APPLICANT: Sharp, John D
; APPLICANT: Barnes, Thomas S
; APPLICANT: Kirst, Susan J
; APPLICANT: Mackay, Charles R
; APPLICANT: Myers, Paul S
; APPLICANT: Leiby, Kevin R
; APPLICANT: Wrighton, Nicolas
; APPLICANT: Goodearl, Andrew
; APPLICANT: Holtzman, Douglas A
; TITLE OF INVENTION: NOVEL GENES ENCODING PROTEINS HAVING
; PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER
; TITLE OF INVENTION: USES.
; FILE REFERENCE: MP100-5350NMIM
; CURRENT APPLICATION NUMBER: US/09/759,130B
; CURRENT FILING DATE: 2002-09-16
; PRIOR APPLICATION NUMBER: US 09/479,249
; PRIOR FILING DATE: 2000-01-07
; PRIOR APPLICATION NUMBER: US 09/559,497
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: US 09/578,063
; PRIOR FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/333,159
; PRIOR FILING DATE: 1999-06-14
; PRIOR APPLICATION NUMBER: US 09/596,194
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: US 09/342,364
; PRIOR FILING DATE: 1999-06-29
; PRIOR APPLICATION NUMBER: US 09/608,452
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/393,996
; PRIOR FILING DATE: 1999-09-10
; PRIOR APPLICATION NUMBER: US 09/602,871
; PRIOR FILING DATE: 2000-06-23
; PRIOR APPLICATION NUMBER: US 09/420,707
; PRIOR FILING DATE: 1999-10-19
; NUMBER OF SEQ ID NOS: 460
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 71
; LENGTH: 3594
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-759-1308-71

Query Match          76.0%; Score 15.2; DB 9; Length 3594;
Best Local Similarity 85.0%; Pred. No. 1.2e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1  GCGCGACATCGCTTCCC 20
Db      2932  GCGCGACCTTTCGATCCC 2913

RESULT 9
US-09-998-598-2531/C
; Sequence 2531, Application US/09998598
; Patent No. US20020150922A1
; GENERAL INFORMATION:
; APPLICANT: Stolk, John A.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Chenaault, Ruth A.
; APPLICANT: Meagher, Madelein Joy
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.561
; CURRENT APPLICATION NUMBER: US/09/998,598
; CURRENT FILING DATE: 2001-11-16
; NUMBER OF SEQ ID NOS: 2606
; SOFTWARE: Corixa Invention Disclosure Database
```

```
; SEQ ID NO 2531
; LENGTH: 229
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-998-598-2531

Query Match          75.0%; Score 15; DB 10; Length 229;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      4  CGACATCATCGCTTC 18
Db      173  CGACATCATCGCTTC 159

RESULT 10
US-09-736-457-1800
; Sequence 1800, Application US/09736457
; Patent No. US20020168637A1
; GENERAL INFORMATION:
; APPLICANT: Wang, Tongtong
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: Lodes, Michael A.
; APPLICANT: Fanger, Gary
; APPLICANT: Vedvick, Tom
; APPLICANT: Carter, Darick
; APPLICANT: Retter, Marc
; APPLICANT: Mannion, Jane
; APPLICANT: Fan, Liqun
; APPLICANT: Wang, Aijun
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.478C15
; CURRENT APPLICATION NUMBER: US/09/736,457
; CURRENT FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 1864
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1800
; LENGTH: 2842
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-736-457-1800

Query Match          75.0%; Score 15; DB 9; Length 2842;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      2  GCGCGACATCATCGCT 16
Db      931  GCGCGACATCATCGCT 945

RESULT 11
US-09-902-941-1800
; Sequence 1800, Application US/09902941
; Patent No. US20020172952A1
; GENERAL INFORMATION:
; APPLICANT: Henderson, Robert A.
; APPLICANT: Wang, Tongtong
; APPLICANT: Malanabe, Yoshihiro
; APPLICANT: Johnson, Jeffrey C.
; APPLICANT: Retter, Marc W.
; APPLICANT: Marnerakis, Margarita
; APPLICANT: Carter, Darick
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedvick, Thomas S.
; APPLICANT: Bangur, Chaitanya S.
; APPLICANT: McNabb, Andria
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.478C17
; CURRENT APPLICATION NUMBER: US/09/902,941
; CURRENT FILING DATE: 2001-07-10
```

NUMBER OF SEQ ID NOS: 2002
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1800
; LENGTH: 2842
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-902-941-1800

Query Match 75.0%; Score 15; DB 9; Length 2842;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 GCCGACATCATCGCT 16
|||||
DB 931 GCCGACATCATCGCT 945

RESULT 12
US-09-849-626-1800
; Sequence 1800, Application US/09849626
; Publication No. US20020197669A1
; GENERAL INFORMATION:
; APPLICANT: Banquer, Chaitanya
; APPLICANT: Fanger, Gary
; APPLICANT: Wang, Aijun
; APPLICANT: Wang, Tongtong
; APPLICANT: Switzer, Anne
; APPLICANT: McNeill, Patricia
; APPLICANT: Clapper, Jonathan
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF LUNG CANCER
; FILE REFERENCE: 210121.478C16
; CURRENT APPLICATION NUMBER: US/09/849,626
; CURRENT FILING DATE: 2001-05-03
; NUMBER OF SEQ ID NOS: 1926
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1800
; LENGTH: 2842
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-849-626-1800

Query Match 75.0%; Score 15; DB 9; Length 2842;
Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 GCCGACATCATCGCT 16
|||||
DB 931 GCCGACATCATCGCT 945

RESULT 13
US-09-986-632-7
; Sequence 7, Application US/09986632
; Patent No. US20020119944A1
; GENERAL INFORMATION:
; APPLICANT: AGUERA, Michelle
; TITLE OF INVENTION: Modulation of Ulp/CRMP activity for the prevention or
; TITLE OF INVENTION: treatment of myelin disorders
; FILE REFERENCE: P06974US01/BAS
; CURRENT APPLICATION NUMBER: US/09/986,632
; CURRENT FILING DATE: 2001-11-09
; PRIOR APPLICATION NUMBER: US 60/246,751
; PRIOR FILING DATE: 2000-11-09
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 2842
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-986-632-7

Query Match 75.0%; Score 15; DB 10; Length 2842;

Best Local Similarity 100.0%; Pred. No. 1.4e+02;
Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 GCCGACATCATCGCT 16
|||||
DB 931 GCCGACATCATCGCT 945

RESULT 14
US-09-878-574-7271
; Sequence 7271, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Hyrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/333,535
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 7271
; LENGTH: 256
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701099678H1
US-09-878-574-7271

Query Match 74.0%; Score 14.8; DB 10; Length 256;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCCGACATCATCGCTTC 18
|||||
DB 36 GCCCTTCATCATCGCTTC 53

RESULT 15
US-09-815-343-137
; Sequence 137, Application US/09815343
; Patent No. US20010055596A1
; GENERAL INFORMATION:
; APPLICANT: Meadher, Madeleine
; APPLICANT: Xu, Jianqun
; APPLICANT: King, Gordon R.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THERAPY AND
; TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER
; FILE REFERENCE: 210121.504
; CURRENT APPLICATION NUMBER: US/09/815,343
; CURRENT FILING DATE: 2001-03-22
; NUMBER OF SEQ ID NOS: 1556
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 137
; LENGTH: 264
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-815-343-137

Query Match 74.0%; Score 14.8; DB 10; Length 264;
Best Local Similarity 88.9%; Pred. No. 1.5e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 3 CCGACATCATCGCTTCCC 20
|||||
DB 228 CCGACATCATCGCTTCCC 245

Search completed: February 18, 2003, 07:09:36
Job time : 109.899 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 34.9547 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-23
Perfect score: 24
Sequence: 1 CGAGACTAATTGGCTGCTGGC 24

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 153338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: Issued_Patents_NA:*
2: /cgn2.6/prodata/2/ina/5A_COMB.seq:*
3: /cgn2.6/prodata/2/ina/5B_COMB.seq:*
4: /cgn2.6/prodata/2/ina/5A_COMB.seq:*
5: /cgn2.6/prodata/2/ina/PCTUS_COMB.seq:*
6: /cgn2.6/prodata/2/ina/backfilist1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	24	100.0	4403765	4	US-09-103-840A-2
C 2	24	100.0	4411529	4	US-09-103-840A-1
C 3	16.8	70.0	447	4	US-08-836-075A-23
C 4	16.2	67.5	363	2	US-08-967-101-30
C 5	16.2	67.5	363	2	US-08-592-541-30
C 6	16.2	67.5	363	3	US-09-124-698-30
C 7	16.2	67.5	363	4	US-09-127-480-30
C 8	16.2	67.5	363	4	US-08-486-841C-30
C 9	16.2	67.5	363	4	US-09-124-523-30
C 10	16.2	67.5	1421	4	US-09-592-054-5
C 11	16.2	67.5	1569	4	US-09-592-054-3
C 12	16.2	67.5	14872	4	US-08-961-527-72
C 13	15.8	65.8	653	4	US-08-961-527-358
C 14	15.8	65.8	2061	2	US-08-835-170-1
C 15	15.8	65.8	2061	2	US-09-359-257-1
C 16	15.8	65.8	2061	4	US-09-371-674-1
C 17	15.8	65.8	2327	2	US-08-835-170-3
C 18	15.8	65.8	2327	4	US-09-359-257-3
C 19	15.8	65.8	2327	4	US-09-371-674-3
C 20	15.8	65.8	7011	1	US-08-306-691B-42
C 21	15.8	65.8	12566	4	US-08-961-527-149
C 22	15.6	65.0	636	4	US-09-328-111-226
C 23	15.6	65.0	4325	2	US-08-888-497-21
C 24	15.6	65.0	4325	4	US-09-362-230-21
C 25	15.6	65.0	4325	5	PCT-US94-07926-31
C 26	15.6	65.0	81001	4	US-09-750-580-1
C 27	15.2	63.3	4731	2	US-08-488-706-2

C 28	15.2	63.3	4731	3	US-08-772-270A-9	Sequence 9, Appl
C 29	15.2	63.3	19932	2	US-08-477-451-25	Sequence 25, Appl
C 30	15	62.5	859	4	US-09-247-373B-47	Sequence 47, Appl
C 31	15	62.5	1341	4	US-09-504-445-5	Sequence 5, Appl
C 32	15	62.5	1394	4	US-09-504-445-3	Sequence 3, Appl
C 33	15	62.5	1413	4	US-09-504-445-1	Sequence 1, Appl
C 34	15	62.5	2225	2	US-08-780-370A-1	Sequence 1, Appl
C 35	15	62.5	2643	4	US-09-399-913-56	Sequence 56, Appl
C 36	15	62.5	18627	4	US-08-961-527-113	Sequence 113, App
C 37	15	62.5	40352	3	US-08-846-111D-15	Sequence 15, Appl
C 38	15	62.5	40352	4	US-09-443-077-15	Sequence 15, Appl
C 39	15	62.5	50341	1	US-08-247-901C-1	Sequence 1, Appl
C 40	15	62.5	50341	2	US-09-075-904-1	Sequence 1, Appl
C 41	15	62.5	52297	4	US-09-426-436-1	Sequence 1, Appl
C 42	15	62.5	52297	4	US-08-705-557-1	Sequence 1, Appl
C 43	14.8	61.7	657	4	US-09-040-984-41	Sequence 41, Appl
C 44	14.8	61.7	657	4	US-09-123-912-41	Sequence 41, Appl
C 45	14.8	61.7	657	4	US-09-643-597-41	Sequence 41, Appl

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2/c
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICANT NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match      100.0%; Score 24; DB 4; Length 4403765;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 CGAGACTAATTGGCTGCTGGC 24
Db 3082252 CGAGACTAATTGGCTGCTGGC 3082229

RESULT 2
US-09-103-840A-1/c
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICANT NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
```

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 100.0%; Score 24; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 0.015;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 CGAGCTAATTGGCTGCTGC 24
|||||
DB 3087569 CGAGCTAATTGGCTGCTGC 3087546

RESULT 3
US-08-836-075A-23/C
Sequence 23, Application US/08836075A
Patent No. 6180768
GENERAL INFORMATION:
APPLICANT: MAERTENS, GERT
APPLICANT: STUYVER, LIEVEN
TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
TITLE OF INVENTION: AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTIC
NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P. O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/836,075A
FILING DATE: 21 Apr 1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/EP95/04155
FILING DATE: 23 Oct 1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
US-08-836-075A-23

Query Match 70.0%; Score 16.8; DB 4; Length 447;
Best Local Similarity 90.0%; Pred. No. 14;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
OY 1 CGAGCTAATTGGCTGCTGC 20
|||||

DB 233 CGAGCTAATTGGCTGCTGC 214

RESULT 4
US-08-967-101-30/C
Sequence 30, Application US/08967101
Patent No. 5840540
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M
APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TITLE OF INVENTION: TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 183
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: High Street Tower - 125 High Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/967,101
FILING DATE: 10-NOV-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/592,541
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Pitcher, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-967-101-30

Query Match 67.5%; Score 16.2; DB 2; Length 363;
Best Local Similarity 85.7%; Pred. No. 27;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 4 GACTAATTGGCTGCTGCTGC 24
|||||
DB 34 GACTAATTGGCTGCTGCTGC 14

RESULT 5
US-08-592-541-30/C
Sequence 30, Application US/08592541
Patent No. 5986054
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M
APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TITLE OF INVENTION: TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 183
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: High Street Tower - 125 High Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.

ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/592,541
FILING DATE:
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Pitcher, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-592-541-30

Query Match
Best Local Similarity 85.7%; Score 16.2; DB 2; Length 363;
Pred. No. 27;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 4 GACTAATTGGTGCTGGC 24
|||||
Db 34 GACTAATTGGTGCTGGC 14

RESULT 6
US-09-124-698-30/c
Sequence 30, Application US/09124698
Patent No. 6117978
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M
APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TITLE OF INVENTION: TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 183
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: High Street Tower - 125 High Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/124,698
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/592,541
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Pitcher, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 base pairs
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-124-698-30

Query Match
Best Local Similarity 85.7%; Score 16.2; DB 3; Length 363;
Pred. No. 27;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 4 GACTAATTGGTGCTGGC 24
|||||
Db 34 GACTAATTGGTGCTGGC 14

RESULT 7
US-09-127-480-30/c
Sequence 30, Application US/09127480
Patent No. 6194153
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M
APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TITLE OF INVENTION: TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 183
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HURWITZ & THIBEAULT
STREET: High Street Tower - 125 High Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/127,480
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/592,541
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Pitcher, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-127-480-30

Query Match
Best Local Similarity 85.7%; Score 16.2; DB 4; Length 363;
Pred. No. 27;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 4 GACTAATTGGTGCTGGC 24
|||||
Db 34 GACTAATTGGTGCTGGC 14

RESULT 8
US-08-496-841C-30/c
Sequence 30, Application US/08496841C
Patent No. 6210919
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M

FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 175
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby, PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/496,841C
FILING DATE: 28-Jun-1995
CLASSIFICATION: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Paul F. Fehner, Ph.D.
REGISTRATION NUMBER: 35,135
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 527-7700
TELEFAX: (212) 753-6237
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 30:
US-08-496-841C-30
Query Match 67.5%; Score 16.2; DB 4; Length 363;
Best Local Similarity 85.7%; Pred. No. 27;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 4 GACTAATTGGTGCTGCTGGC 24
||||| ||||| ||||| |||||
DB 34 GACTAATTGGTGCTGCTGGC 14
RESULT 9
US-09-124-523-30/C
Sequence 30, Application US/09124523
Patent No. 6395960
GENERAL INFORMATION:
APPLICANT: ST. GEORGE-HYSLOP, PETER H
APPLICANT: ROMMENS, JOHANNA M
APPLICANT: FRASER, PAUL E
TITLE OF INVENTION: GENETIC SEQUENCES AND PROTEINS RELATED
TO ALZHEIMER'S DISEASE
NUMBER OF SEQUENCES: 183
CORRESPONDENCE ADDRESS:
ADDRESSEE: TESTA, HUMRITZ & THIBEAULT
STREET: High Street Tower - 125 High Street
CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
ZIP: 02110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/124,523
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/08/592,541
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Plichter, Edmund R.
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 248-7000
TELEFAX: (617) 248-7100
INFORMATION FOR SEQ ID NO: 30:
SEQUENCE CHARACTERISTICS:
LENGTH: 363 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-124-523-30
Query Match 67.5%; Score 16.2; DB 4; Length 363;
Best Local Similarity 85.7%; Pred. No. 27;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 4 GACTAATTGGTGCTGCTGGC 24
||||| ||||| ||||| |||||
DB 34 GACTAATTGGTGCTGCTGGC 14
RESULT 10
US-09-592-054-5
Sequence 5, Application US/09592054
Patent No. 6440684
GENERAL INFORMATION:
APPLICANT: Beraud, Christophe
APPLICANT: Finer, Jeffrey
APPLICANT: Sakowicz, Roman
APPLICANT: Wood, Kenneth
TITLE OF INVENTION: No. 6440684el motor proteins and methods for
FILE REFERENCE: 1016
CURRENT APPLICATION NUMBER: US/09/592,054
CURRENT FILING DATE: 2000-07-20
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Win. vs Version 4.0
SEQ ID NO 5
LENGTH: 1421
TYPE: DNA
ORGANISM: Human
US-09-592-054-5
Query Match 67.5%; Score 16.2; DB 4; Length 1421;
Best Local Similarity 85.7%; Pred. No. 34;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 3 AGACTAATTGGTGCTGCTGGC 23
||||| ||||| ||||| |||||
DB 532 AGACTGTTTGGTGCTGCTGGC 552
RESULT 11
US-09-592-054-3
Sequence 3, Application US/09592054
Patent No. 6440684
GENERAL INFORMATION:
APPLICANT: Beraud, Christophe
APPLICANT: Finer, Jeffrey
APPLICANT: Sakowicz, Roman
APPLICANT: Wood, Kenneth
TITLE OF INVENTION: No. 6440684el motor proteins and methods for
FILE REFERENCE: 1016
CURRENT APPLICATION NUMBER: US/09/592,054
CURRENT FILING DATE: 2000-07-20
NUMBER OF SEQ ID NOS: 8
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3

LENGTH: 1569
TYPE: DNA
ORGANISM: Human
US-09-592-054-3

Query Match 67.5%; Score 16.2; DB 4; Length 1569;
Best Local Similarity 85.7%; Pred. No. 34;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 AGACTAATTGGTGCTTGG 23
||||| ||||| ||||| |||||
DB 596 AGACTGTTTGGTGCTTGG 616

RESULT 12

US-08-961-527-72/C
Sequence 72, Application US/08961527
Patent No. 6420135
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
NUMBER OF SEQUENCES: 391
CORRESPONDENCE ADDRESS:
ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage
COMPUTER: HP Vectra 486/33
OPERATING SYSTEM: MSDOS version 6.2
SOFTWARE: ASCII Text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/961,527
FILING DATE:
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Brookes, A. Anders
REGISTRATION NUMBER: 36,373
REFERENCE/DOCKET NUMBER: PB340P1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (301) 309-8504
TELEFAX: (301) 309-8512
INFORMATION FOR SEQ ID NO: 72:
SEQUENCE CHARACTERISTICS:
LENGTH: 14872 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
US-08-961-527-72

Query Match 67.5%; Score 16.2; DB 4; Length 14872;
Best Local Similarity 85.7%; Pred. No. 50;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 GAGACTAATTGGTGCTTGG 22
||||| ||||| ||||| |||||
DB 12122 GAGATAATTGGTGCTTGG 12102

RESULT 13

US-08-961-527-358
Sequence 358, Application US/08961527
Patent No. 6420135
GENERAL INFORMATION:
APPLICANT: Charles Kunsch
TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
NUMBER OF SEQUENCES: 391

CORRESPONDENCE ADDRESS:

ADDRESSEE: Human Genome Sciences, Inc.
STREET: 9410 Key West Avenue
CITY: Rockville
STATE: Maryland
COUNTRY: USA
ZIP: 20850

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4MB storage

COMPUTER: HP Vectra 486/33

OPERATING SYSTEM: MSDOS version 6.2

SOFTWARE: ASCII Text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/961,527

FILING DATE:

CLASSIFICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER:

FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Brookes, A. Anders

REGISTRATION NUMBER: 36,373

REFERENCE/DOCKET NUMBER: PB340P1

TELECOMMUNICATION INFORMATION:

TELEPHONE: (301) 309-8504

TELEFAX: (301) 309-8512

INFORMATION FOR SEQ ID NO: 358:

SEQUENCE CHARACTERISTICS:

LENGTH: 653 base pairs

TYPE: nucleic acid

STRANDEDNESS: double

TOPOLOGY: linear
US-08-961-527-358

Query Match 65.8%; Score 15.8; DB 4; Length 653;
Best Local Similarity 89.5%; Pred. No. 47;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 ACTAATTGGTGCTTGG 23
||||| ||||| ||||| |||||
DB 97 ACTAATTGGTGCTTGG 115

RESULT 14

US-08-835-170-1/C
Sequence 1, Application US/08835170
Patent No. 5965420
GENERAL INFORMATION:
APPLICANT: Greasy, Cartha
TITLE OF INVENTION: Human Protein Kinases hYAK3
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: SmithKline Beecham Corporation
STREET: 709 Swedeland Road
CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/835,170
FILING DATE: 26-FEB-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Han, William T

REGISTRATION NUMBER: 34,344
REFERENCE/DOCKET NUMBER: GH50004
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-5219
TELEFAX: 610-270-4026
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2061 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-835-170-1

Query Match 65.8%; Score 15.8; DB 2; length 2061;
Best Local Similarity 89.5%; Pred. No. 57;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 5 ACTAATTGGTGCTGG 23
||| ||||| ||||| |||||
DB 561 ACCACTTGGTGCTGG 543

RESULT 15
US-09-359-257-1/C
Sequence 1, Application US/09359257
Patent No. 6165766
GENERAL INFORMATION:
APPLICANT: Creasy, Caretha
APPLICANT: Xie, Wei
TITLE OF INVENTION: HUMAN PROTEIN KINASES HYAK3
FILE REFERENCE: GH50004X1D1
CURRENT APPLICATION NUMBER: US/09/359,257
CURRENT FILING DATE: 1999-07-22
EARLIER APPLICATION NUMBER: 08/835,170
EARLIER FILING DATE: 1997-04-07
EARLIER APPLICATION NUMBER: 60/040618
EARLIER FILING DATE: 1997-03-05
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1
LENGTH: 2061
TYPE: DNA
ORGANISM: Human
US-09-359-257-1

Query Match 65.8%; Score 15.8; DB 4; length 2061;
Best Local Similarity 89.5%; Pred. No. 57;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 5 ACTAATTGGTGCTGG 23
||| ||||| ||||| |||||
DB 561 ACCACTTGGTGCTGG 543

Search completed: February 18, 2003, 03:40:16
Job time : 1998.95 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 128.279 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-23

Perfect score: 24
Sequence: 1 CGAGACTAATTTGGGTCCTTGGC 24

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 254661826 residues

Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18.2	75.8	111	10	US-09-728-445-832
2	16.8	70.0	447	9	US-09-851-138-23
3	16.6	69.2	883	10	US-09-867-701-10874
4	16.6	69.2	1889	10	US-09-867-701-10875
5	16.2	67.5	363	10	US-09-878-574-3038
6	16.2	67.5	546	10	US-09-974-300-5879
7	16.2	67.5	1772	9	US-09-938-8428-3769
8	16.2	67.5	56737	10	US-09-782-378A-17
9	16.2	67.5	368004	10	US-09-949-654-3
10	15.8	65.8	453	10	US-09-925-300-894
11	15.8	65.8	7011	10	US-09-954-456-964
12	15.8	65.8	32195	10	US-09-764-847-1512
13	15.6	65.0	513	10	US-09-960-253-30
14	15.6	65.0	518	10	US-09-864-761-8236
15	15.6	65.0	519	9	US-09-796-692-9102
16	15.6	65.0	595	10	US-09-833-381-1009
17	15.6	65.0	636	10	US-09-879-536-226
18	15.6	65.0	1165	10	US-09-263-959-240
19	15.6	65.0	1383	10	US-09-731-557A-1

c 20	15.6	65.0	2756	10	US-09-960-253-159	Sequence 159, App
21	15.6	65.0	31314	10	US-09-764-877-3875	Sequence 3875, App
22	15.6	65.0	81001	10	US-09-751-877-1	Sequence 1, Appl1
23	15.6	65.0	684973	16	US-09-263-959-1	Sequence 1, Appl1
24	15.4	64.2	4121	12	US-10-044-090-637	Sequence 637, App
25	15.2	63.3	585	9	US-09-738-626-2611	Sequence 2611, App
26	15.2	63.3	1623	10	US-09-815-242-6277	Sequence 6277, App
27	15.2	63.3	2000	9	US-09-938-842A-3620	Sequence 3620, App
28	15.2	63.3	2000	10	US-09-938-842A-5041	Sequence 5041, App
29	15.2	63.3	2132	12	US-10-044-090-659	Sequence 659, App
30	15.2	63.3	2205	10	US-09-764-864-67	Sequence 67, Appl1
31	15.2	63.3	2663	10	US-09-892-867-2	Sequence 2, Appl1
32	15.2	63.3	3530	10	US-09-764-847-1985	Sequence 1985, App
33	15.2	63.3	3536	10	US-09-764-847-1984	Sequence 1984, App
34	15.2	63.3	5288	10	US-09-764-878-386	Sequence 386, App
35	15.2	63.3	11990	10	US-09-969-708-569	Sequence 569, App
36	15.2	63.3	3309400	9	US-09-738-626-1	Sequence 1, Appl1
37	15	62.5	192	10	US-09-878-574-3316	Sequence 3316, App
38	15	62.5	241	10	US-09-864-761-18614	Sequence 18614, App
39	15	62.5	244	10	US-09-833-381-960	Sequence 960, App
40	15	62.5	400	10	US-09-878-574-4050	Sequence 4050, App
41	15	62.5	414	10	US-09-867-550-717	Sequence 717, App
42	15	62.5	434	10	US-09-983-965-3092	Sequence 3092, App
43	15	62.5	466	10	US-09-864-761-5227	Sequence 5227, App
44	15	62.5	469	10	US-09-864-761-1864	Sequence 1864, App
45	15	62.5	470	10	US-09-864-761-6556	Sequence 6556, App

ALIGNMENTS

```

RESULT 1
US-09-728-445-832
; Sequence 832, Application US/09728445
; Patent No. US2002102543A1
; GENERAL INFORMATION:
; APPLICANT: Friedlich, Glenn
; APPLICANT: Zambrowicz, Brian
; APPLICANT: Sands, Arthur F.
; TITLE OF INVENTION: NO. US2002102543A1 Mutated Mammalian Cells and
; FILE REFERENCE: LEX-0102-USA
; CURRENT APPLICATION NUMBER: US/09/728,445
; CURRENT FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/168,358
; PRIOR FILING DATE: 1999-12-01
; NUMBER OF SEQ ID NOS: 891
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 832
; LENGTH: 111
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-728-445-832

Query Match      75.8%; Score 18.2; DB 10; Length 111;
Best Local Similarity 87.0%; Pred. No. 4.7;
Matches 20; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      2 GAGACTAATTTGGGTCCTTGGC 24
        || ||| ||||| ||||| |||
Db       19 GATACGTGATTTGGCGCCCTTGGC 41

RESULT 2
US-09-851-138-23/c
; Sequence 23, Application US/09851138
; Publication No. US20020183508A1
; GENERAL INFORMATION:
; APPLICANT: MAERTENS, GEERT
; STUDYER, LIEVEN
; TITLE OF INVENTION: NEW SEQUENCES OF HEPATITIS C VIRUS GENOTYPES
; AND THEIR USE AS PROPHYLACTIC, THERAPEUTIC AND DIAGNOSTI
AGENTS

```

```

NUMBER OF SEQUENCES: 207
CORRESPONDENCE ADDRESS:
ADDRESSEE: ARNOLD, WHITE & DURKEE
STREET: P.O. BOX 4433
CITY: HOUSTON
STATE: TEXAS
COUNTRY: USA
ZIP: 77210-4433
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6.0 / ASCII text output
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/851.138
FILING DATE: 09-May-2001
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/836,075
FILING DATE: <unknown>
APPLICATION NUMBER: EP 94870166.9
FILING DATE: 21 Oct 1994
APPLICATION NUMBER: EP 95870076.7
FILING DATE: 28 Jun 1995
ATTORNEY/AGENT INFORMATION:
NAME: KAMMERER, PATRICIA A.
REGISTRATION NUMBER: 29,775
REFERENCE/DOCKET NUMBER: INNS:004
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 447 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
HYPOTHETICAL: NO
ANTI-SENSE: NO
SEQUENCE DESCRIPTION: SEQ ID NO: 23:
US-09-851-138-23
Query Match 70.0%; Score 16.8; DB 9; Length 447;
Best Local Similarity 90.0%; Pred No. 29;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0.
QY 1 CGAGACTAATTGGTGCT 20
||| ||| ||| ||| |||
DB 233 CGAGACTGATTTGGTGCT 214
RESULT 3
US-09-867-701-10874/C
; Sequence 10874, Application US/09867701
; Patent No. US20020132237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.497
; CURRENT APPLICATION NUMBER: US/09/867,701
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 10874
; LENGTH: 683
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 582,605
; OTHER INFORMATION: n = A,T,C or G
US-09-867-701-10874

```

```

OY      2 GAGACTAATTGGTGCTGCTTGGC 24          69.2%: Score 16.6; DB 10; Length 683;
        ||||| | ||||||| |||||
Db       325 GAAACTGTCTGGTGCTTGGC 303         82.6%: Pred. No.39;
                                                Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

RESULT 4
US-09-867-701-10875/c
: Sequence 10875, Application US/09867701
: Patent No. US20020132237A1
: GENERAL INFORMATION:
: APPLICANT: Agate, Paul A.
: APPLICANT: Jones, Robert.
: APPLICANT: Harlocker, Susan L.
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
: FILE REFERENCE: 210121.497
: CURRENT APPLICATION NUMBER: US/09/867.701
: NUMBER OF SEQ ID NOS: 2001-05-29
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 10875
: LENGTH: 1889
: TYPE: DNA
: ORGANISM: Homo sapiens
US-09-867-701-10875

Query Match                               69.2%; Score 16.6; DB 10; Length 1889;
Best Local Similarity                     82.6%; Pred. No.45;
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY      2 GAGACTAATTGGTGCTGCTTGGC 24          69.2%; Score 16.6; DB 10; Length 1889;
        ||||| | ||||||| |||||
Db       1371 GAAACTGTCTGGTGCTTGGC 1349         82.6%; Pred. No.45;
                                                Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

RESULT 5
US-09-878-574-3038/c
: Sequence 3038, Application US/09878574
: Patent No. US20020110548A1
: GENERAL INFORMATION:
: APPLICANT: Byrum, Joseph R.
: APPLICANT: La Rosa, Thomas J.
: APPLICANT: Thompson, Michael D.
: TITLE OF INVENTION: Nucleic Acid Molecules and other Molecules Associated with
: FILE REFERENCE: 38-21(15401)H
: CURRENT APPLICATION NUMBER: US/09/878.574
: PRIOR FILING DATE: 2001-12-21
: PRIOR APPLICATION NUMBER: 09/533.535
: NUMBER OF SEQ ID NOS: 1999-06-14
: SEQ ID NO 3038
: LENGTH: 363
: TYPE: DNA
: ORGANISM: Glycine max
: OTHER INFORMATION: Clone ID: LIB3028-016-01-B1-E9
US-09-878-574-3038

Query Match                               67.5%; Score 16.2; DB 10; Length 363;
Best Local Similarity                     85.7%; Pred. No.56;
Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY      4 GACTAATTTGGTGCTTGGC 24          67.5%; Score 16.2; DB 10; Length 363;
        ||| | ||||| |||||
Db       275 GACAAATTTGGTGCTTGGC 255         85.7%; Pred. No.56;
                                                Matches 18; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

RESULT 6
US-09-974-300-5879/c
```

```

Sequence 5879, Application US/09974300
Patient No. US20020146721A1
GENERAL INFORMATION:
APPLICANT: Berka, Randy M.
APPLICANT: Clausen, Id Groth
TITLE OF INVENTION: Methods for Monitoring
TITLE OF INVENTION: Expression
FILE REFERENCE: 10085, 500-US
CURRENT APPLICATION NUMBER: US/09/974,300
CURRENT FILING DATE: 2001-10-05
PRIOR APPLICATION NUMBER: 09/680,598
PRIOR FILING DATE: 2000-10-06
PRIOR APPLICATION NUMBER: 602/79,526
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 8481
SOFTWARE: PstEdSo for Windows Version 4.0
SEQ ID NO 5879
LENGTH: 546
TYPE: DNA
ORGANISM: Bacillus clausii
US-09/974-300-5879

```

Query Match	67.5%	Score 16.2;	DB 10;	Length 546;
Best Local Similarity	85.7%;	Pred. No. 59;		
Matches 18; Conservative	0;	Mismatches 3;	Indels 0;	Gaps 0;

Qy	2	GAGACTAATTGGGTGCCCTG	22
Db	190	GAGTCTAATTGGCGGCTG	170

RESULT 7
 US-09-938-842A-3769
 : Sequence: 3769, Application US/0938842A
 : Patent No. US20020160378A1
 : GENERAL INFORMATION:
 : APPLICANT: Harper, Jeff
 : APPLICANT: Kireps, Joel
 : APPLICANT: Wang, Xun
 : APPLICANT: Zhu, Tong
 : TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
 : TITLE OF INVENTION: SAME, AND METHODS OF USE
 : FILE REFERENCE: SCRIPT00-3
 : CURRENT APPLICATION NUMBER: US/09/938, 842A
 : CURRENT FILING DATE: 2001-08-24
 : PRIOR APPLICATION NUMBER: US 60/227, 866
 : PRIOR FILING DATE: 2000-08-24
 : PRIOR APPLICATION NUMBER: US 60/264, 647
 : PRIOR FILING DATE: 2001-01-16
 : PRIOR APPLICATION NUMBER: US 60/300, 111
 : PRIOR FILING DATE: 2001-06-22
 : NUMBER OF SEQ ID NOS: 5379
 : SEQ ID NO 3769
 : LENGTH: 1772
 : TYPE: DNA
 : ORGANISM: Arabidopsis thaliana
 US-09-938-842A-3769

Query	March	67.5%	Score 16.2	DB 9	length 1772
Best	Local Similarity	85.7%	Pred. No. 71		
Matches	18; Conservative	0;	Mismatches	3;	Indels 0;
OY	2 GAGACTAATTTGGTGCTTG	22			
	11 11 111111 111111				
Db	482 GATACAAATTTGGATGCTTG	502			

RESULT 8
US-09-782-378A-17
; Sequence 17, Application US/09782378A
; Patent No. US20020102731A1
; GENERAL INFORMATION:
; APPLICANT: Hearing, Patrick

```

? APPLICANT: Bahou,Medie
? APPLICANT: Sandaou, ziv
? APPLICANT: Gatenko, Dmitri
? TITLE OF INVENTION: Adenoviral Vectors
? FILE REFERENCE: SNOYB-04970
? CURRENT APPLICATION NUMBER: US/09/782,378A
? CURRENT FILING DATE: 2001-02-12
? PRIOR APPLICATION NUMBER: 60/237,747
? PRIORITY FILING DATE: 2000-10-02
? NUMBER OF SEQ ID NOS: 27
? SOFTWARE: PatentIn version 3.0
? SEQ ID NO 17
? LENGTH: 56737
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-09-782-378A-17

Query Match
Best Local Similarity 67.5% Score 16.2:
Matches 18: Conservative 0: Mismatch

```

Query Match	67.5%	Score 16.2	DB 10	Length 56737
Best Local Similarity	85.7	Pred. No. 1.2e+02		
Matches 18: Conservative	0	Mismatches	3	Indels
			0	Gaps
0Y	1	CGAGCAATATTGGTGGCCTT	21	
Db	34523	CGTTATTATTGGTGGCCTT	34543	

```

RESULT 9
US-09-949-654-3
: Sequence 3, Application US/099,9654
: Patent No. US20020127644A1
: GENERAL INFORMATION:
: APPLICANT: YAN, Chunhua et al.
: TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
: TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS
: TITLE OF INVENTION: AND USES THEREOF
: FILE REFERENCE: CL000817
: CURRENT APPLICATION NUMBER: US/09/949,654
: CURRENT FILING DATE: 2001-09-12
: PRIOR APPLICATION NUMBER: 60/231,572
: PRIOR FILING DATE: 2000-09-11
: NUMBER OF SEQ ID NOS: 5
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 3
: LENGTH: 368004
: TYPE: DNA
: ORGANISM: Human
: FEATURE:
: NAME/KEY: misc_feature
: LOCATION: (1)...(368004)
: OTHER INFORMATION: n - A,T,C; or G
: US-09-949-654-3

```

Query Match %:	67.5%	Score 16.2:	DB 10:	length 368004:
Best Local Similarity:	85.7%	Pred. No. 1.5e+02:		
Matches 18:	conservative 0:	Mismatches 3:	Indels 0:	Gaps 0:
0Y	2	GAGACTAATTTGGGTGCCTTG	22	
DB 140790	GAGACTAGTTTGGGTGCCTTG	140810		

```

RESULT 10
US-09/925-300-894/C
; Sequence 894, Application US/09925300
; Patent No. US20020151681A1
; GENERAL INFORMATION:
; APPLICANT: Craig Rosen,
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988

```

```

; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1890
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 894
; LENGTH: 453
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (5)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (18)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (76)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (129)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (403)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (404)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (405)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: misc feature
; LOCATION: (453)
; OTHER INFORMATION: n equals a,t,g, or c
; US-09-925-300-894

Query Match
Best Local Similarity 65.8%; Score 15.8; DB 10; Length 453;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 3 AGACTATTGGGTCCTT 21
    ||| | ||||| |||||
Db 278 AGATTATTGGGTCCTT 260

RESULT 11
; US-09-954-456-964/C
; Sequence 964, Application US/09954456
; Patent No. US20020115057A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; TITLE OF INVENTION: Process for Identifying Anti-Cancer Therapeutic Agents Using Cand
; FILE REFERENCE: 689290-76
; CURRENT APPLICATION NUMBER: US/09/954,456
; PRIOR FILING DATE: 2001-09-18
; PRIOR APPLICATION NUMBER: US/60/233,617
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US/60/234,052
; PRIOR FILING DATE: 2000-09-20
; PRIOR APPLICATION NUMBER: US/60/234,923
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,134
; PRIOR FILING DATE: 2000-09-25
; PRIOR APPLICATION NUMBER: US/60/235,637
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,638
; PRIOR FILING DATE: 2000-09-26
; PRIOR APPLICATION NUMBER: US/60/235,711
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,720
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,840
```

```

; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: US/60/235,863
; PRIOR FILING DATE: 2000-09-27
; NUMBER OF SEQ ID NOS: 2276
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO: 964
; LENGTH: 7011
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-954-456-964

Query Match
Best Local Similarity 65.8%; Score 15.8; DB 10; Length 7011;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 ACTAATTGGGTCCTTG 23
    ||| | ||||| |||||
Db 4737 ACTACTTGGGGGTCCTTG 4719

RESULT 12
; US-09-764-847-1512/C
; Sequence 1512, Application US/09764847
; Patent No. US20020132767A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC009
; CURRENT APPLICATION NUMBER: US/09/764,847
; PRIOR FILING DATE: 2001-01-17
; NUMBER OF SEQ ID NOS: 2003
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO: 1512
; LENGTH: 32195
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-764-847-1512

Query Match
Best Local Similarity 65.8%; Score 15.8; DB 10; Length 32195;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 ACTAATTGGGTCCTTG 23
    ||| | ||||| |||||
Db 28821 ACTAATTGGGTCCTTG 28803

RESULT 13
; US-09-960-253-30/C
; Sequence 30, Application US/09960253
; Patent No. US20020123619A1
; GENERAL INFORMATION:
; APPLICANT: Benson, Darin R.
; APPLICANT: Mohamath, Raodoh
; APPLICANT: Lodes, Michael J.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.556
; CURRENT APPLICATION NUMBER: US/09/960,253
; PRIOR FILING DATE: 2001-09-20
; NUMBER OF SEQ ID NOS: 187
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 30
; LENGTH: 513
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-960-253-30

Query Match
Best Local Similarity 65.0%; Score 15.6; DB 10; Length 513;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

QY 1 CGAGACTATTGGTGCCTTG 22
Db 342 CGAGACTCTTTGGGTGACCTG 321

RESULT 14

US-09-864-761-8236
; Sequence 8236, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharon G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
; FILE REFERENCE: Aeonica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annomax Sequence Listing Engine vers. 1.1
; SEQ ID NO 8236
; LENGTH: 518
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC000003.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 5.3
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 3.7
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 4.5
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 3.6
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 4.9
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.3
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 4.4
US-09-864-761-8236

Query Match 65.0%; Score 15.6; DB 10; Length 518;
Best Local Similarity 81.8%; Pred. No. 1.2e+02;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 2 GAGACTAATTTGGTGCCTTG 23
Db 427 GAGACTTTTGGGAGGCTTG 448

RESULT 15

US-09-796-692-9102/c
; Sequence 9102, Application US/0979692
; Publication No. US20020198362A1
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THE
; TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
; FILE REFERENCE: 2077.001200
; CURRENT APPLICATION NUMBER: US/09/796,692
; CURRENT FILING DATE: 2001-03-01
; PRIOR APPLICATION NUMBER: 60/186,126
; PRIOR FILING DATE: 2000-03-01
; PRIOR APPLICATION NUMBER: 60/190,479
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/200,545
; PRIOR FILING DATE: 2000-04-27
; PRIOR APPLICATION NUMBER: 60/200,303
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/200,779
; PRIOR FILING DATE: 2000-04-28
; PRIOR APPLICATION NUMBER: 60/200,999
; PRIOR FILING DATE: 2000-05-01
; PRIOR APPLICATION NUMBER: 60/202,084
; PRIOR FILING DATE: 2000-05-04
; PRIOR APPLICATION NUMBER: 60/206,201
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: 60/218,950
; PRIOR FILING DATE: 2000-07-14
; PRIOR APPLICATION NUMBER: 60/222,903
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: 60/223,416
; PRIOR FILING DATE: 2000-08-04
; PRIOR APPLICATION NUMBER: 60/223,378
; PRIOR FILING DATE: 2000-08-07
; NUMBER OF SEQ ID NOS: 9597
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 9102
; LENGTH: 519
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (11)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (26)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (418)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (431)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (467)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (482)
; OTHER INFORMATION: n=A,T,C or G
; NAME/KEY: unsure
; LOCATION: (495)


```

: OTHER INFORMATION: n=A,T,C or G
: NAME/KEY: unsure
: LOCATION: (512)
: OTHER INFORMATION: n=A,T,C or G
: NAME/KEY: unsure
: LOCATION: (519)
: OTHER INFORMATION: n=A,T,C or G
: US-09-796-692-9102

```

Query Match	65.0%	Score 15, 6;	DB 9;	length 519;
Best Local Similarity	81.8%	Pred. No. 1.2e+02;		
Matches 18;	Conservative 0;	Mismatches 4;	Indels 0;	Gaps 0;

Qy 3 AGACTAATTTGGGTGCTTGGC 24
 ||| | ||| ||| |||||
 Db 403 AGATTCATTTTGGTTCCTTGGC 382

Search completed: February 18, 2003, 07:10:54
Job time : 206.279 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM.nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 : Search time 23.3031 Seconds
(without alignments)
210.565 Million cell updates/sec

Title: US-09-362-485-24

Perfect score: 16

Sequence: 1 ATTTGGGTGCTTGGC 16

Scoring table: IDENTITY_NUC

Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents, NA: *
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq: *
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq: *
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq: *
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq: *
5: /cgn2_6/ptodata/2/ina/PCITUS.COMB.seq: *
6: /cgn2_6/ptodata/2/ina/backfile1.seq: *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	16	100.0	4403765	4 US-09-103-840A-2	Sequence 2, Appli
2	16	100.0	4411529	4 US-09-103-840A-1	Sequence 1, Appli
3	14	87.5	2061	2 US-08-835-170-1	Sequence 1, Appli
4	14	87.5	2061	4 US-09-359-257-1	Sequence 1, Appli
5	14	87.5	2061	4 US-09-371-674-1	Sequence 1, Appli
6	14	87.5	2327	2 US-08-835-170-3	Sequence 3, Appli
7	14	87.5	2327	4 US-09-359-257-3	Sequence 3, Appli
8	14	87.5	2327	4 US-09-371-674-3	Sequence 3, Appli
9	14	87.5	7451	2 US-08-743-637B-18	Sequence 18, Appli
10	14	87.5	3451	3 US-08-526-840B-18	Sequence 18, Appli
11	14	87.5	4325	2 US-08-888-497-21	Sequence 21, Appli
12	14	87.5	4325	4 US-09-362-230-21	Sequence 21, Appli
13	14	87.5	4325	5 PCIT-US94-07926-21	Sequence 21, Appli
14	14	87.5	99500	4 US-09-798-096-10	Sequence 10, Appli
15	14	83.8	407	4 US-09-245-169-1	Sequence 1, Appli
16	14	83.8	667	4 US-09-129-030-25	Sequence 25, Appli
17	14	83.8	674	4 US-09-129-030-23	Sequence 23, Appli
18	14	83.8	1001	4 US-09-641-638-174	Sequence 174, App
19	14	83.8	1026	4 US-09-129-033-11	Sequence 1, Appli
20	14	83.8	1245	4 US-09-504-358-7	Sequence 7, Appli
21	14	83.8	1245	4 US-09-954-314-7	Sequence 7, Appli
22	14	83.8	1455	1 US-08-446-803-5	Sequence 5, Appli
23	14	83.8	1455	2 US-08-861-837-5	Sequence 5, Appli
24	14	83.8	1455	3 US-08-600-656-5	Sequence 5, Appli
25	14	83.8	1455	4 US-09-170-670-10	Sequence 10, Appli
26	14	83.8	1455	4 US-09-170-670-15	Sequence 15, Appli
27	14	83.8	1455	4 US-09-193-068-10	Sequence 10, Appli

28	13.4	83.8	1455	4 US-09-193-068-14	Sequence 14, Appli
29	13.4	83.8	1455	4 US-09-183-412-10	Sequence 10, Appli
30	13.4	83.8	1455	4 US-09-183-412-14	Sequence 14, Appli
31	13.4	83.8	1455	4 US-09-354-191A-5	Sequence 5, Appli
32	13.4	83.8	1455	4 US-09-290-734-10	Sequence 10, Appli
33	13.4	83.8	1455	4 US-09-290-734-15	Sequence 15, Appli
34	13.4	83.8	1573	6 5169835-5	Patent No. 5169835
35	13.4	83.8	2077	1 US-07-872-644-52	Sequence 52, Appli
36	13.4	83.8	2077	1 US-08-297-494-52	Sequence 52, Appli
37	13.4	83.8	2077	1 US-08-297-510-52	Sequence 52, Appli
38	13.4	83.8	2077	1 US-08-479-532-52	Sequence 52, Appli
39	13.4	83.8	2077	1 US-08-455-525-52	Sequence 52, Appli
40	13.4	83.8	2077	1 US-08-455-525-52	Sequence 52, Appli
41	13.4	83.8	2077	3 US-09-139-491-52	Sequence 52, Appli
42	13.4	83.8	2077	5 PCT-US92-03222-52	Sequence 52, Appli
43	13.4	83.8	2646	4 US-09-221-017B-558	Sequence 558, Appli
44	13.4	83.8	2693	1 US-07-872-644-50	Sequence 50, Appli
45	13.4	83.8	2693	1 US-08-297-494-50	Sequence 50, Appli

ALIGNMENTS

RESULT 1
US-09-103-840A-2/C
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
US-09-103-840A-2
Query Match 100.0%; Score 16; DB 4; Length 4403765;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATTTGGGTGCTTGGC 16
DB 3082244 ATTTGGGTGCTTGGC 3092229
RESULT 2
US-09-103-840A-1/C
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2

;; SOFTWARE: Patentin Ver. 2.1
;; SEQ ID NO 1
;; LENGTH: 4411529
;; TYPE: DNA
;; ORGANISM: Mycobacterium tuberculosis
;; OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 100.0%; Score 16; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATTGGGTGCTTGGC 16
|||||
DB 3087561 ATTGGGTGCTTGGC 3087546

RESULT 3
US-08-835-170-1/C
; Sequence 1, Application US/08835170
; Patent No. 5965420
; GENERAL INFORMATION:
; APPLICANT: Creasy, Caretha
; APPLICANT: Wei Xie
; TITLE OF INVENTION: Human Protein Kinases hYAK3
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
; CITY: King of Prussia
; STATE: PA
; COUNTRY: USA
; ZIP: 19406
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/835,170
; FILING DATE: 26-FEB-1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Han, William T
; REGISTRATION NUMBER: 34,344
; REFERENCE/DOCKET NUMBER: GH50004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 610-270-5219
; TELEFAX: 610-270-4026
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2061 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-835-170-1

Query Match 87.5%; Score 14; DB 2; Length 2061;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTGGGTGCTTGG 15
|||||
DB 556 TTGGGTGCTTGG 543

RESULT 4
US-09-359-257-1/C

;; Sequence 1, Application US/09359257
;; Patent No. 6165766
;; GENERAL INFORMATION:
;; APPLICANT: Creasy, Caretha
;; APPLICANT: Xie, Wei
;; TITLE OF INVENTION: HUMAN PROTEIN KINASES hYAK3
;; FILE REFERENCE: GH50004X1D1
;; CURRENT APPLICATION NUMBER: US/09/359,257
;; CURRENT FILING DATE: 1999-07-22
;; EARLIER APPLICATION NUMBER: 08/835,170
;; EARLIER FILING DATE: 1997-04-07
;; EARLIER APPLICATION NUMBER: 60/040618
;; EARLIER FILING DATE: 1997-03-05
;; NUMBER OF SEQ ID NOS: 4
;; SOFTWARE: FASTSEQ for Windows Version 3.0
;; SEQ ID NO 1
;; LENGTH: 2061
;; TYPE: DNA
;; ORGANISM: Human
US-09-359-257-1

Query Match 87.5%; Score 14; DB 4; Length 2061;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTGGGTGCTTGG 15
|||||
DB 556 TTGGGTGCTTGG 543

RESULT 5
US-09-371-674-1/C
; Sequence 1, Application US/09371674
; Patent No. 6323318
; GENERAL INFORMATION:
; APPLICANT: Lord, Kenneth A.
; APPLICANT: Dillion, Susan B.
; APPLICANT: Creasy, Caretha
; TITLE OF INVENTION: A METHOD FOR TREATING ANEMIA
; FILE REFERENCE: GH50041
; CURRENT APPLICATION NUMBER: US/09/371,674
; CURRENT FILING DATE: 1999-08-10
; EARLIER APPLICATION NUMBER: 60/119,045
; EARLIER FILING DATE: 1999-02-01
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 2061
; TYPE: DNA
; ORGANISM: Human
US-09-371-674-1

Query Match 87.5%; Score 14; DB 4; Length 2061;
Best Local Similarity 100.0%; Pred. No. 89;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTGGGTGCTTGG 15
|||||
DB 556 TTGGGTGCTTGG 543

RESULT 6
US-08-835-170-3/C
; Sequence 3, Application US/08835170
; Patent No. 5965420
; GENERAL INFORMATION:
; APPLICANT: Creasy, Caretha
; APPLICANT: Wei Xie
; TITLE OF INVENTION: Human Protein Kinases hYAK3
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESS: SmithKline Beecham Corporation
; STREET: 709 Swedeland Road
US-08-835-170-3

CITY: King of Prussia
STATE: PA
COUNTRY: USA
ZIP: 19406
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/835,170
FILING DATE: 26-FEB-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Han, William T
REGISTRATION NUMBER: 34,344
REFERENCE/DOCKET NUMBER: GH50004
TELECOMMUNICATION INFORMATION:
TELEPHONE: 610-270-5219
TELEFAX: 610-270-4026
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 2327 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other
US-08-835-170-3

Query Match 87.5%; Score 14; DB 2; Length 2327;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TTGGGTGCTTGG 15
|||||

DB 822 TTGGGTGCTTGG 809

RESULT 7
US-09-359-257-3/c
Sequence 3, Application US/09359257
Patent No. 6165766
GENERAL INFORMATION:
APPLICANT: Creasy, Caretha
TITLE OF INVENTION: HUMAN PROTEIN KINASES HYAK3
FILE REFERENCE: GH5004X1D1
CURRENT APPLICATION NUMBER: US/09/359,257
CURRENT FILING DATE: 1999-07-22
EARLIER APPLICATION NUMBER: 08/835,170
EARLIER FILING DATE: 1997-04-07
EARLIER APPLICATION NUMBER: 60/040618
EARLIER FILING DATE: 1997-03-05
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 2327
TYPE: DNA
ORGANISM: Human
US-09-359-257-3

Query Match 87.5%; Score 14; DB 4; Length 2327;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TTGGGTGCTTGG 15
|||||

DB 822 TTGGGTGCTTGG 809

RESULT 8
US-09-371-674-3/c
Sequence 3, Application US/09371674
Patent No. 6323318
GENERAL INFORMATION:
APPLICANT: Lord, Kenneth A.
APPLICANT: Dillon, Susan B.
APPLICANT: Creasy, Caretha
TITLE OF INVENTION: A METHOD FOR TREATING ANEMIA
FILE REFERENCE: GH50041
CURRENT APPLICATION NUMBER: US/09/371,674
CURRENT FILING DATE: 1999-08-10
EARLIER APPLICATION NUMBER: 60/119,045
EARLIER FILING DATE: 1999-02-01
NUMBER OF SEQ ID NOS: 9
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 2327
TYPE: DNA
ORGANISM: Human
US-09-371-674-3

Query Match 87.5%; Score 14; DB 4; Length 2327;
Best Local Similarity 100.0%; Pred. No. 90;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TTGGGTGCTTGG 15
|||||

DB 822 TTGGGTGCTTGG 809

RESULT 9
US-08-743-637B-18
Sequence 18, Application US/08743637B
Patent No. 599 066
GENERAL INFORMATION:
APPLICANT: BERGERON, Michel G.
APPLICANT: PICARD, Francois J.
APPLICANT: OUELLETTE, Marc
APPLICANT: ROY, Paul H.
TITLE OF INVENTION: SPECIES-SPECIFIC AND UNIVERSAL DNA
TITLE OF INVENTION: PROBES AND AMPLIFICATION PRIMERS TO RAPIDLY DETECT AND
IDENTIFY COMMON BACTERIAL PATHOGENS AND ASSOCIATED
TITLE OF INVENTION: ANTIBIOTIC RESISTANCE GENES FROM CLINICAL SPECIMENS ...
NUMBER OF SEQUENCES: 273
CORRESPONDENCE ADDRESS:
ADDRESS: QUARLES & HRAVY
STREET: 411 EAST WISCONSIN AVENUE
CITY: MILWAUKEE
STATE: WISCONSIN
COUNTRY: USA
ZIP: 53202-4497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/743,637B
FILING DATE: 04-NOV-1996
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/526,840
FILING DATE: 11-SEP-1995
ATTORNEY/AGENT INFORMATION:
NAME: BAKER, Jean C.
REGISTRATION NUMBER: 35,433
REFERENCE/DOCKET NUMBER: 850586,90012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (414) 277-5000
TELEFAX: (414) 277-5591
INFORMATION FOR SEQ ID NO: 18:

SEQUENCE CHARACTERISTICS:
LENGTH: 3451 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Pseudomonas aeruginosa
US-08-743-637B-18

Query Match 87.5%; Score 14; DB 2; Length 3451;
Best Local Similarity 100.0%; Pred. No. 94;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 TTGGTGCTTGGC 16
|||||
DB 1522 TTGGTGCTTGGC 1535

RESULT 10
US-08-526-840B-18
Sequence 18, Application US/08526840B
Patent No. 6001364
GENERAL INFORMATION:
APPLICANT: BERGERON, Michel G.
APPLICANT: QUELETTE, Marc
APPLICANT: ROY, Paul H.
TITLE OF INVENTION: SPECIFIC AND UNIVERSAL PROBES AND
TITLE OF INVENTION: AMPLIFICATION PRIMERS TO RAPIDLY DETECT AND IDENTIFY
TITLE OF INVENTION: COMMON BACTERIAL PATHOGENS AND ANTIBIOTIC RESISTANCE GENES
TITLE OF INVENTION: FROM CLINICAL SPECIMENS FOR ROUTINE DIAGNOSIS IN ...
NUMBER OF SEQUENCES: 177
CURRENT APPLICATION DATA:
ADDRESS: 411 East Wisconsin Avenue
CITY: Milwaukee
STATE: Wisconsin
COUNTRY: USA
ZIP: 53202-4497
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.30
APPLICATION NUMBER: US/08/526,840B
FILING DATE: 11-SEP-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/304,732
FILING DATE: 12-SEP-1994
ATTORNEY/AGENT INFORMATION:
NAME: BAKER, Jean C.
REGISTRATION NUMBER: 35,433
REFERENCE/DOCKET NUMBER: 850586,90012
TELECOMMUNICATION INFORMATION:
TELEPHONE: (414) 277-5000
TELEFAX: (414) 277-5591
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 3451 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
ORIGINAL SOURCE:
ORGANISM: Pseudomonas aeruginosa
US-08-526-840B-18

Query Match 87.5%; Score 14; DB 3; Length 3451;
Best Local Similarity 100.0%; Pred. No. 94;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 3 TTGGTGCTTGGC 16
|||||
DB 1522 TTGGTGCTTGGC 1535

RESULT 11
US-08-888-497-21/C
Sequence 21, Application US/08888497
Patent No. 5972677
GENERAL INFORMATION:
APPLICANT: Tischfield, Jay A.
APPLICANT: Selthamer, Jeffrey J.
TITLE OF INVENTION: Mammalian Phospholipase A2 Nucleotide
TITLE OF INVENTION: Sequences and Low Molecular Weight Amino Acid Sequences
TITLE OF INVENTION: Encoded Thereby, Antisense Sequences and Nucleotide
TITLE OF INVENTION: Sequences Having Internal Ribosome Binding Sites
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ruden, Barnet, McClosky, Smith, Schuster &
ADDRESSEE: Russell PA
STREET: 200 East Broadway Boulevard
CITY: Fort Lauderdale
STATE: FL
COUNTRY: USA
ZIP: 33301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: IBM PC compatible
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/888,497
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/651,405
FILING DATE:
APPLICATION NUMBER: US 08/097,354
FILING DATE: 26-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Manso, Peter J.
REGISTRATION NUMBER: 32,264
REFERENCE/DOCKET NUMBER: IN21044-5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 305-764-4996
TELEFAX: 305-527-2498
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4325 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 722..1195
US-08-888-497-21

Query Match 87.5%; Score 14; DB 2; Length 4325;
Best Local Similarity 100.0%; Pred. No. 96;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 TTGGTGCTTGGC 15
|||||
DB 1930 TTGGTGCTTGGC 1917

RESULT 12
US-09-362-230-21/C
Sequence 21, Application US/09362230
Patent No. 6352849
GENERAL INFORMATION:
APPLICANT: Tischfield, Jay A.

APPLICANT: Seilhamer, Jeffrey J.
TITLE OF INVENTION: Mammalian Phospholipase A2 Nucleotide
TITLE OF INVENTION: Sequences and Low Molecular Weight Amino Acid Sequences
TITLE OF INVENTION: Encoded Thereby, Antisense Sequences and Nucleotide
TITLE OF INVENTION: Sequences Having Internal Ribosome Binding Sites
NUMBER OF SEQUENCES: 44
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ruden, Barnett, McClosky, Smith, Schuster &
ADDRESS: Russell PA
STREET: 200 East Broward Boulevard
CITY: Fort Lauderdale
STATE: FL
COUNTRY: USA
ZIP: 33301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/362,230
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/888,497
FILING DATE:
APPLICATION NUMBER: US 08/097,354
FILING DATE: 26-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Manso, Peter J.
REGISTRATION NUMBER: 32,264
REFERENCE/DOCKET NUMBER: IN21044-5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 305-527-2498
TELEFAX: 305-764-4996
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4325 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 722..1195
US-09-362-230-21

Query Match 87.5%; Score 14; DB 4; Length 4325;
Best Local Similarity 100.0%; Pred. No. 96;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTGGGTCCTTGG 15
|||||
DB 1930 TTGGGTCCTTGG 1917

RESULT 13
PCT-US94-07926-21/c
; Sequence 21, Application PC/TUS9407926
; GENERAL INFORMATION:
; APPLICANT: Tischfield, Jay A.
; TITLE OF INVENTION: Mammalian Phospholipase 2 Nucleotide
; TITLE OF INVENTION: Sequences and Low Molecular Weight Amino Acid Sequences
; TITLE OF INVENTION: Encoded Thereby, Antisense Sequences and Nucleotide
; TITLE OF INVENTION: Sequences Having Internal Ribosome Binding Sites
; NUMBER OF SEQUENCES: 44
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Ruden, Barnett, McClosky, Smith, Schuster &
; ADDRESS: Russell PA
; STREET: 200 East Broward Boulevard
; CITY: Fort Lauderdale
; STATE: FL

COUNTRY: USA
ZIP: 33301
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/07926
FILING DATE: 15-JUL-1994
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/097,354
FILING DATE: 26-JUL-1993
ATTORNEY/AGENT INFORMATION:
NAME: Manso, Peter J.
REGISTRATION NUMBER: 32,264
REFERENCE/DOCKET NUMBER: IN21044-5
TELECOMMUNICATION INFORMATION:
TELEPHONE: 305-527-2498
TELEFAX: 305-764-4996
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 4325 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
FEATURE:
NAME/KEY: CDS
LOCATION: 722..1195
PCT-US94-07926-21

Query Match 87.5%; Score 14; DB 5; Length 4325;
Best Local Similarity 100.0%; Pred. No. 96;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTGGGTCCTTGG 15
|||||
DB 1930 TTGGGTCCTTGG 191

RESULT 14
US-09-798-096-10
; Sequence 10, Application US/09798096
; Patent No. 6399378
; GENERAL INFORMATION:
; APPLICANT: Donna T. Ward
; TITLE OF INVENTION: ANTISENSE MODULATION OF RECOL2 EXPRESSION
; FILE REFERENCE: R15-0207
; CURRENT APPLICATION NUMBER: US/09/798,096
; CURRENT FILING DATE: 2001-03-01
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 10
; LENGTH: 99500
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
US-09-798-096-10

Query Match 87.5%; Score 14; DB 4; Length 99500;
Best Local Similarity 100.0%; Pred. No. 13e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TTGGGTCCTTGG 15
|||||
DB 93225 TTGGGTCCTTGG 93238

RESULT 15
US-09-245-169-1/c
; Sequence 1, Application US/09245169

; Patent No. 6417208
; GENERAL INFORMATION:
; APPLICANT: Albert Einstein College of Medicine of Yeshiva University
; TITLE OF INVENTION: A METHOD OF IDENTIFICATION OF INHIBITORS OF PDEIC AND METHODS OF
; FILE OF INVENTION: TREATMENT OF DIABETES
; FILE REFERENCE: 96700/556
; CURRENT APPLICATION NUMBER: US/09/245,169
; CURRENT FILING DATE: 1999-02-05
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1
; LENGTH: 407
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-245-169-1

Query Match 83.8%; Score 13.4; DB 4; Length 407;
Best Local Similarity 93.3%; Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 2 TTGGGTCCTTGGC 16
||||| |||||
DB 194 TTGGGTACTTGGC 180

Search completed: February 18, 2003, 04:15:15
Job time : 2122.3 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 85.5192 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-24
Perfect score: 16
Sequence: 1 ATTGGGCTGCTTGGC 16

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 424239 seqs, 25461826 residues
Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications_NA:*

- 1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/2/pubpna/PCCT_NEW_PUB.seq:*
- 3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
- 4: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
- 6: /cgn2_6/ptodata/2/pubpna/PCCTUS_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
- 8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
- 10: /cgn2_6/ptodata/2/pubpna/US09_PUBCOMB.seq:*
- 11: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
- 12: /cgn2_6/ptodata/2/pubpna/US10_PUBCOMB.seq:*
- 13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
- 14: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.4	90.0	111	10	US-09-728-445-832 Sequence 832, App
2	14.4	90.0	4121	12	US-10-044-090-637 Sequence 637, App
3	14.4	90.0	40433	10	US-09-880-107-3327 Sequence 3327, App
4	14.4	90.0	143306	10	US-09-729-920-3 Sequence 3, Appl
5	14	87.5	3451	10	US-09-452-599-18 Sequence 18, Appl
6	13.4	83.8	201	10	US-09-878-574-9594 Sequence 9594, App
7	13.4	83.8	319	10	US-09-878-574-1043 Sequence 1043, App
8	13.4	83.8	352	10	US-09-878-574-2087 Sequence 2087, App
9	13.4	83.8	365	10	US-09-878-574-2332 Sequence 3232, App
10	13.4	83.8	381	10	US-09-878-574-416 Sequence 416, App
11	13.4	83.8	389	10	US-09-983-965-3054 Sequence 3054, App
12	13.4	83.8	398	10	US-09-960-352-11004 Sequence 11004, A
13	13.4	83.8	407	9	US-10-085-849-1 Sequence 1, Appl
14	13.4	83.8	414	10	US-09-960-352-1376 Sequence 1376, App
15	13.4	83.8	482	10	US-09-864-761-5711 Sequence 5711, App
16	13.4	83.8	496	9	US-09-796-692-8046 Sequence 8046, App
17	13.4	83.8	505	10	US-09-783-590-8010 Sequence 8010, App
18	13.4	83.8	507	9	US-09-738-626-957 Sequence 957, App
19	13.4	83.8	544	10	US-09-864-761-7358 Sequence 7358, App

20	13.4	83.8	673	10	US-09-822-849A-572 Sequence 572, App
21	13.4	83.8	683	10	US-09-867-701-10874 Sequence 10874, A
22	13.4	83.8	779	10	US-09-925-300-628 Sequence 628, App
23	13.4	83.8	825	9	US-09-938-842A-678 Sequence 678, App
24	13.4	83.8	1050	10	US-09-770-842A-161 Sequence 161, App
25	13.4	83.8	1217	10	US-09-925-302-357 Sequence 357, App
26	13.4	83.8	1245	10	US-09-954-314-7 Sequence 7, Appl
27	13.4	83.8	1446	10	US-09-738-907-55 Sequence 55, Appl
28	13.4	83.8	1455	9	US-09-918-543-3 Sequence 3, Appl
29	13.4	83.8	1455	10	US-09-769-864-10 Sequence 10, Appl
30	13.4	83.8	1455	10	US-09-769-864-14 Sequence 14, Appl
31	13.4	83.8	1455	10	US-09-854-346-3 Sequence 3, Appl
32	13.4	83.8	1455	10	US-09-902-188A-5 Sequence 5, Appl
33	13.4	83.8	1461	10	US-09-880-192-42 Sequence 42, Appl
34	13.4	83.8	1847	10	US-09-764-847-1083 Sequence 1083, App
35	13.4	83.8	1886	10	US-09-764-847-1081 Sequence 1081, App
36	13.4	83.8	1889	10	US-09-867-701-10875 Sequence 10875, A
37	13.4	83.8	2077	10	US-09-883-825-52 Sequence 52, Appl
38	13.4	83.8	2440	10	US-09-764-864-309 Sequence 309, App
39	13.4	83.8	2693	10	US-09-883-825-50 Sequence 50, Appl
40	13.4	83.8	2747	9	US-09-978-295A-269 Sequence 269, App
41	13.4	83.8	2747	9	US-09-978-697-269 Sequence 269, App
42	13.4	83.8	2747	9	US-09-978-192A-269 Sequence 269, App
43	13.4	83.8	2747	9	US-09-999-832A-269 Sequence 269, App
44	13.4	83.8	2747	9	US-09-978-189-269 Sequence 269, App
45	13.4	83.8	2747	9	US-10-174-590-101 Sequence 101, App

ALIGNMENTS

RESULT 1
US-09-728-445-832
; Sequence 832, Application US/09728445
; Patent No. US20020102543A1
; GENERAL INFORMATION:
; APPLICANT: Friedrich, Glenn
; APPLICANT: Zamrowicz, Brian
; TITLE OF INVENTION: No. US20020102543A1 Mutated Mammalian Cells and
; TITLE OF INVENTION: Animals
; FILE REFERENCE: LEX-0102-USA
; CURRENT APPLICATION NUMBER: US/09/728,445
; CURRENT FILING DATE: 2000-11-10
; PRIOR APPLICATION NUMBER: US 60/168,358
; PRIOR FILING DATE: 1999-12-01
; NUMBER OF SEQ ID NOS: 891
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 832
; LENGTH: 111
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-728-445-832

Query Match 90.0%; Score 14.4; DB 10; Length 111;
Best Local Similarity 93.8%; Pred. No. 75;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 ATTGGGCTGCTTGGC 16
||||| |||||||
DB 26 ATTGGGCTGCTTGGC 41

RESULT 2
US-10-044-090-637
; Sequence 637, Application US/10044090
; Patent No. US20020137081A1
; GENERAL INFORMATION:
; APPLICANT: Ciga Bandman
; TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN VASCULAR TISSUE ACTIVATION
; FILE REFERENCE: PA-0028 US
; CURRENT APPLICATION NUMBER: US/10/044,090
; CURRENT FILING DATE: 2002-01-09


```

; NUMBER OF SEQ ID NOS: 850
; SOFTWARE: PERL Program
; SEQ ID NO 637
; LENGTH: 4121
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: incyte ID NO. US20020137081A1 238125.5
; NAME/KEY: unsure
; LOCATION: 697, 702, 715
; OTHER INFORMATION: a, t, c, g, or other
US-10-044-090-637

Query Match
Best Local Similarity 90.0%; Score 14.4; DB 12; Length 4121;
Pred. No. 1.2e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATTTGGTGCTTGGC 16
DB 531 ACTTGCGCTTGGC 546

RESULT 3
US-09-880-107-3327
; Sequence 3327, Application US/09880107
; Patent No. US20020142981A1
; GENERAL INFORMATION:
; APPLICANT: Horne, Darci T.
; APPLICANT: Vockley, Joseph G.
; APPLICANT: Scherf, Uwe
; APPLICANT: Gene Logic, Inc.
; TITLE OF INVENTION: Gene Expression Profiles in Liver Cancer
; FILE REFERENCE: 44921-5028-WO
; CURRENT APPLICATION NUMBER: US/09/880.107
; CURRENT FILING DATE: 2001-06-14
; PRIOR APPLICATION NUMBER: US 60/211,379
; PRIOR FILING DATE: 2000-06-14
; PRIOR APPLICATION NUMBER: US 60/237,054
; PRIOR FILING DATE: 2000-10-02
; NUMBER OF SEQ ID NOS: 3950
; SOFTWARE: Patcutlin Ver. 2.1
; SEQ ID NO 3327
; LENGTH: 40433
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Genbank Accession No. US20020142981A1 U22376
US-09-880-107-3327

Query Match
Best Local Similarity 90.0%; Score 14.4; DB 10; Length 40433;
Pred. No. 1.6e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATTTGGTGCTTGGC 16
DB 22675 ATTTGAGTGCCTTGGC 22690

RESULT 4
US-09-729-920-3
; Sequence 3, Application US/09729920
; Patent No. US20020103115A1
; GENERAL INFORMATION:
; APPLICANT: GUEGLER, Karl et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS.
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS.
; TITLE OF INVENTION: AND USES THEREOF
; FILE REFERENCE: C1000858
; CURRENT APPLICATION NUMBER: US/09/729.920
; CURRENT FILING DATE: 2000-12-06
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
```

```

; SEQ ID NO 3
; LENGTH: 143306
; TYPE: DNA
; ORGANISM: Human
US-09-729-920-3

Query Match
Best Local Similarity 90.0%; Score 14.4; DB 10; Length 143306;
Pred. No. 1.8e+02;
Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATTTGGTGCTTGGC 16
DB 81857 ATTTGGTGCTTGGC 81872

RESULT 5
US-09-452-599-18
; Sequence 18, Application US/09452599
; Patent No. US20020055101A1
; GENERAL INFORMATION:
; APPLICANT: Bergeron, Michel G.
; APPLICANT: Ouellette, Marc
; APPLICANT: Roy, Paul H.
; TITLE OF INVENTION: Specific and Universal Probes and Amplification Primers
; TITLE OF INVENTION: to Rapidly Detect and Identify Common Bacterial
; TITLE OF INVENTION: Pathogens and Antibiotic Resistance Genes from Clinical
; TITLE OF INVENTION: Specimens for Routine Diagnosis in Micro
; FILE REFERENCE: 12287.31
; CURRENT APPLICATION NUMBER: US/09/452.599
; CURRENT FILING DATE: 1999-12-01
; PRIOR APPLICATION NUMBER: 08/526,840
; PRIOR FILING DATE: 1995-09-11
; PRIOR APPLICATION NUMBER: 08/304,732
; PRIOR FILING DATE: 1994-09-12
; NUMBER OF SEQ ID NOS: 177
; SOFTWARE: Patcutlin Ver. 2.1
; SEQ ID NO 18
; LENGTH: 3451
; TYPE: DNA
; ORGANISM: Pseudomonas aeruginosa
US-09-452-599-18

Query Match
Best Local Similarity 87.5%; Score 14; DB 10; Length 3451;
Pred. No. 1.9e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 3 TTGGTGCTTGGC 16
DB 1522 TTGGTGCTTGGC 1535

RESULT 6
US-09-878-574-9594
; Sequence 9594, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: plants
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878.574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/333,535
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 9594
; LENGTH: 201
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701102670H1
US-09-878-574-9594
```

Query Match 83.8%; Score 13.4; DB 10; Length 201;
Best Local Similarity 93.3%; Pred. No. 2.7e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TTTGGGTGCTTGGC 16
|||||
DB 80 TTTGGGTGCTTGGC 94

RESULT 7

US-09-878-574-1043
; Sequence 1043, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/333,535
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 1043
; LENGTH: 319
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: LIB3028-043-Q1-B1-A12
US-09-878-574-1043

Query Match 83.8%; Score 13.4; DB 10; Length 319;
Best Local Similarity 93.3%; Pred. No. 2.9e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TTTGGGTGCTTGGC 16
|||||
DB 207 TTTGGGTGCTTGGC 221

RESULT 8

US-09-878-574-2087/c
; Sequence 2087, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/333,535
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 2087
; LENGTH: 352
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: LIB3028-029-Q1-B1-DB
US-09-878-574-2087

Query Match 83.8%; Score 13.4; DB 10; Length 352;
Best Local Similarity 93.3%; Pred. No. 2.9e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATTTGGTGCCTTGG 15
|||||
DB 66 ATTTGGTGCCTTGG 52

RESULT 9
US-09-878-574-3232/c
; Sequence 3232, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/333,535
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 3232
; LENGTH: 365
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(365)
; OTHER INFORMATION: unsure at all n locations
; OTHER INFORMATION: Clone ID: LIB3028-014-Q1-B1-B6
US-09-878-574-3232

US-09-878-574-3232

Query Match 83.8%; Score 13.4; DB 10; Length 365;
Best Local Similarity 93.3%; Pred. No. 3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 ATTTGGTGCCTTGG 15
|||||
DB 204 ATTTGGTGCCTTGG 190

RESULT 10

US-09-878-574-416
; Sequence 416, Application US/09878574
; Patent No. US20020110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/333,535
; PRIOR FILING DATE: 1999-06-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 416
; LENGTH: 381
; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: LIB3028-051-Q1-B1-B2
US-09-878-574-416

Query Match 83.8%; Score 13.4; DB 10; Length 381;
Best Local Similarity 93.3%; Pred. No. 3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TTTGGGTGCTTGGC 16
|||||
DB 225 TTTGGGTGCTTGGC 239

RESULT 11
US-09-983-965-3054/c
; Sequence 3054, Application US/09983965
; Patent No. US20020137160A1

```

: GENERAL INFORMATION:
: APPLICANT: Warren, Wesley C.
: APPLICANT: Tao, Nengbing
: APPLICANT: Byatt, John C.
: APPLICANT: Mathialagan, Nagappan
: TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
: FILE REFERENCE: 37-21(10297)C
: CURRENT APPLICATION NUMBER: US/09/983,965
: CURRENT FILING DATE: 2001-10-26
: PRIOR APPLICATION NUMBER: US 09/465,231
: PRIOR FILING DATE: 1999-12-15
: PRIOR APPLICATION NUMBER: US 60/113,678
: PRIOR FILING DATE: 1998-12-17
: NUMBER OF SEQ ID NOS: 5912
: SEQ ID NO 3054
: LENGTH: 389
: TYPE: DNA
: ORGANISM: Bos taurus
: FEATURE:
: OTHER INFORMATION: Clone ID: 23-LIB3058-016-Q1-K1-P3
US-09-983-965-3054

```

```

Query Match      83.8%; Score 13.4; DB 10; Length 389;
Best Local Similarity 93.3%; Pred. No. 3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 ATTTGGTGCCTTGG 15
    |||||||
DB 175 ATTCGGTGCCTTGG 161

```

```

RESULT 12
US-09-960-352-11004/C
: Sequence 11004, Application US/09960352
: Patent No. US20020137139A1
: GENERAL INFORMATION:
: APPLICANT: Warren, Wesley C.
: APPLICANT: Tao, Nengbing
: APPLICANT: Byatt, John C.
: APPLICANT: Mathialagan, Nagappan
: TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
: FILE REFERENCE: 16511.006/37-21(10298)C
: CURRENT APPLICATION NUMBER: US/09/960,352
: CURRENT FILING DATE: 2001-09-24
: NUMBER OF SEQ ID NOS: 15112
: SEQ ID NO 11004
: LENGTH: 398
: TYPE: DNA
: ORGANISM: Bos taurus
: OTHER INFORMATION: Clone ID: 47-LIB34-011-Q1-E1-012
US-09-960-352-11004

```

```

Query Match      83.8%; Score 13.4; DB 10; Length 398;
Best Local Similarity 93.3%; Pred. No. 3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 ATTTGGTGCCTTGG 15
    |||||||
DB 96 ATTTGGTGCCTTGG 82

```

```

RESULT 13
US-10-085-849-1/C
: Sequence 1, Application US/10085849
: Patent No. US20020160939A1
: GENERAL INFORMATION:
: APPLICANT: Albert Einstein College of Medicine of Yeshiva University
: TITLE OF INVENTION: A METHOD OF IDENTIFICATION OF INHIBITORS OF PBLIC AND
: FILE REFERENCE: 96700/556

```

```

: CURRENT APPLICATION NUMBER: US/10/085,849
: CURRENT FILING DATE: 2002-02-27
: PRIOR APPLICATION NUMBER: US/09/245,169
: PRIOR FILING DATE: 1999-02-05
: NUMBER OF SEQ ID NOS: 7
: SOFTWARE: Patent version 3.0
: SEQ ID NO 1
: LENGTH: 407
: TYPE: DNA
: ORGANISM: Mus musculus
US-10-085-849-1

```

```

Query Match      83.8%; Score 13.4; DB 9; Length 407;
Best Local Similarity 93.1%; Pred. No. 3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 2 TTGGGTGCCTTGGC 16
    |||||||
DB 194 TTGGGTGCCTTGGC 180

```

```

RESULT 14
US-09-960-352-1376/C
: Sequence 1376, Application US/09960352
: Patent No. US20020137139A1
: GENERAL INFORMATION:
: APPLICANT: Warren, Wesley C.
: APPLICANT: Tao, Nengbing
: APPLICANT: Byatt, John C.
: APPLICANT: Mathialagan, Nagappan
: TITLE OF INVENTION: NUCLEIC ACID AND OTHER MOLECULES ASSOCIATED WITH LACTATION AND
: FILE REFERENCE: 16511.006/37-21(10298)C
: CURRENT APPLICATION NUMBER: US/09/960,352
: CURRENT FILING DATE: 2001-09-24
: NUMBER OF SEQ ID NOS: 15112
: SEQ ID NO 1376
: LENGTH: 414
: TYPE: DNA
: ORGANISM: Bos taurus
: OTHER INFORMATION: Clone ID: 06-LIB34-081-Q1-EJ-B5
US-09-960-352-1376

```

```

Query Match      83.8%; Score 13.4; DB 10; Length 414;
Best Local Similarity 93.3%; Pred. No. 3e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1 ATTTGGTGCCTTGG 15
    |||||||
DB 120 ATTTGGTGCCTTGG 106

```

```

RESULT 15
US-09-864-761-5711/C
: Sequence 5711, Application US/09864761
: Patent No. US20020048763A1
: GENERAL INFORMATION:
: APPLICANT: Penn, Sharon G.
: APPLICANT: Rank, David R.
: APPLICANT: Hanzel, David K.
: APPLICANT: Chen, Wensheng
: TITLE OF INVENTION: HUMAN GENOME-DETERMINED SINGLE EXON NUCLEIC ACID PROBES USEFUL FO
: FILE REFERENCE: Aeomic9-X-1
: CURRENT APPLICATION NUMBER: US/09/864,761
: CURRENT FILING DATE: 2001-05-23
: PRIOR APPLICATION NUMBER: US 60/180,312
: PRIOR FILING DATE: 2000-02-04
: PRIOR APPLICATION NUMBER: US 60/207,456
: PRIOR FILING DATE: 2000-05-26
: PRIOR APPLICATION NUMBER: US 09/632,366
: PRIOR FILING DATE: 2000-08-03
: PRIOR APPLICATION NUMBER: GB 24263,6

```

```
? PRIOR FILING DATE: 2000-10-04
? PRIOR APPLICATION NUMBER: US 60/236,359
? PRIOR FILING DATE: 2000-09-27
? PRIOR APPLICATION NUMBER: PCT/US01/00666
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00667
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00664
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00669
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00665
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00668
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00663
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00662
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00661
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: PCT/US01/00670
? PRIOR FILING DATE: 2001-01-30
? PRIOR APPLICATION NUMBER: US 60/234,687
? PRIOR FILING DATE: 2000-09-21
? PRIOR APPLICATION NUMBER: US 09/608,408
? PRIOR FILING DATE: 2000-06-30
? PRIOR APPLICATION NUMBER: US 09/774,203
? PRIOR FILING DATE: 2001-01-29
? NUMBER OF SEQ ID NOS: 49117
? SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
? SEQ ID NO 5711
? LENGTH: 482
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? OTHER INFORMATION: MAP TO AC004924.2
? OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 13
? OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 19
? OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 15
? OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 8.4
? OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 7.5
? OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.8
? OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 4.9
? OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 20
US-09-864-761-5711
```

```
Query Match      83.88; Score 13.4; DB 10; Length 482;
Best Local Similarity 93.38; Pred. No. 3.1e+02;
Matches 14; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
OY      1  ATTTGGTGCTTGG 15
          |||||  |||||
Db      173 ATTTGGTTCCTTG 159
```

Search completed: February 18, 2003, 07:11:23
Job time : 114.519 secs

GenCore version 5.1.1
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 16:07:27 ; Search time 26.216 Seconds
(210,565 'million cell updates/sec

Title: US-09-362-485-25

Perfect score: 18

Sequence: 1 GGCGCGAGTCGACCGGC 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/2/ina/5A.COMB.seq:*
2: /cgn2_6/ptodata/2/ina/5B.COMB.seq:*
3: /cgn2_6/ptodata/2/ina/6A.COMB.seq:*
4: /cgn2_6/ptodata/2/ina/6B.COMB.seq:*
5: /cgn2_6/ptodata/2/ina/PCTUS.COMB.seq:*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	100.0	4403765	4	US-09-103-840A-2
2	18	100.0	4411529	4	US-09-103-840A-1
3	15.4	85.6	1227	4	US-09-385-028-23
4	15.4	85.6	15079	4	US-09-385-028-1
5	15.4	85.6	44377	2	US-08-804-227C-7
6	15.4	85.6	44377	2	US-08-804-198-1
7	14.8	82.2	135	4	US-09-018-635-38
8	14.8	82.2	366	4	US-09-060-756-187
9	14.8	82.2	495	4	US-08-133-711-41
10	14.8	82.2	706	4	US-09-470-191-60
11	14.8	82.2	2004	1	US-08-471-033-18
12	14.8	82.2	2004	2	US-08-471-044-18
13	14.8	82.2	2004	2	US-08-463-483A-18
14	14.8	82.2	2004	2	US-08-471-046A-11
15	14.8	82.2	2004	2	US-08-470-566B-11
16	14.8	82.2	2004	2	US-08-469-334-18
17	14.8	82.2	2004	3	US-09-300-529-18
18	14.8	82.2	2119	4	US-09-018-635-28
19	14.8	82.2	2456	4	US-09-064-693A-19
20	14.8	82.2	2576	1	US-08-471-033-35
21	14.8	82.2	2576	2	US-08-471-044-35
22	14.8	82.2	2576	2	US-08-463-483A-35
23	14.8	82.2	2576	2	US-08-471-046A-35
24	14.8	82.2	2576	2	US-08-470-566B-35
25	14.8	82.2	2576	3	US-08-469-334-35
26	14.8	82.2	2576	3	US-09-300-529-35
27	14.8	82.2	2655	1	US-08-471-033-17

28	14.8	82.2	2655	1	US-08-471-033-26	Sequence 26, Appl
29	14.8	82.2	2655	2	US-08-471-044-17	Sequence 17, Appl
30	14.8	82.2	2655	2	US-08-471-044-26	Sequence 26, Appl
31	14.8	82.2	2655	2	US-08-463-483A-17	Sequence 17, Appl
32	14.8	82.2	2655	2	US-08-463-483A-26	Sequence 26, Appl
33	14.8	82.2	2655	2	US-08-471-046A-17	Sequence 17, Appl
34	14.8	82.2	2655	2	US-08-471-046A-26	Sequence 26, Appl
35	14.8	82.2	2655	2	US-08-470-566B-17	Sequence 17, Appl
36	14.8	82.2	2655	2	US-08-470-566B-26	Sequence 26, Appl
37	14.8	82.2	2655	2	US-08-469-334-17	Sequence 17, Appl
38	14.8	82.2	2655	2	US-08-469-334-26	Sequence 26, Appl
39	14.8	82.2	2655	3	US-09-300-529-17	Sequence 17, Appl
40	14.8	82.2	2655	3	US-09-300-529-26	Sequence 26, Appl
41	14.8	82.2	4031	1	US-08-471-033-49	Sequence 49, Appl
42	14.8	82.2	4031	2	US-08-471-044-49	Sequence 49, Appl
43	14.8	82.2	4031	2	US-08-463-483A-49	Sequence 49, Appl
44	14.8	82.2	4031	2	US-08-471-046A-49	Sequence 49, Appl
45	14.8	82.2	4031	2	US-08-470-566B-49	Sequence 49, Appl

ALIGNMENTS

```
RESULT 1
US-09-103-840A-2/c
: Sequence 2, Application US/09103840A
: Patent No. 6294328
: GENERAL INFORMATION:
: APPLICANT: FLEISCHMAN, Robert D.
: APPLICANT: WHITE, Owen R.
: APPLICANT: FRASER, Claire M.
: APPLICANT: VENTNER, John C.
: TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
: FILE REFERENCE: 24366-20007.00
: CURRENT APPLICATION NUMBER: US/09/103, 840A
: CURRENT FILING DATE: 1998-06-24
: NUMBER OF SEQ ID NOS: 2
: SOFTWARE: PatentIn Ver. 2.1
: SEQ ID NO 2
: LENGTH: 4403765
: TYPE: DNA
: ORGANISM: Mycobacterium tuberculosis
: FEATURE:
: OTHER INFORMATION: "n" bases at various positions throughout the sequence
: OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match          100.0%; Score 18; DB 4; Length 4403765;
Best Local Similarity 100.0%; Pred. NO. 1.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGCGCGAGTCGACCGGC 18
        |||
Db 3081925 GGCGCGAGTCGACCGGC 3081908

RESULT 2
US-09-103-840A-1/c
: Sequence 1, Application US/09103840A
: Patent No. 6294328
: GENERAL INFORMATION:
: APPLICANT: FLEISCHMAN, Robert D.
: APPLICANT: WHITE, Owen R.
: APPLICANT: FRASER, Claire M.
: APPLICANT: VENTNER, John C.
: TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
: FILE REFERENCE: 24366-20007.00
: CURRENT APPLICATION NUMBER: US/09/103, 840A
: CURRENT FILING DATE: 1998-06-24
: NUMBER OF SEQ ID NOS: 2
```

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4411529
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
OTHER INFORMATION: H37Rv
US-09-103-840A-1

Query Match 100.0%; Score 18; DB 4; Length 4411529;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCGCGCAGTCGACCGC 18
|||||

Db 3087242 GCGCGCAGTCGACCGC 3087225

RESULT 3
US-09-385-028-23/C
Sequence 23, Application US/09385028
Patent No. 6232106

GENERAL INFORMATION:
APPLICANT: Susan E. Jensen
APPLICANT: Kwame A. Aldoo
APPLICANT: Ashish S. Paradar
TITLE OF INVENTION: DNA Sequence Encoding Enzymes of Clavulanic
Patent No. 6232106
TITLE OF INVENTION: Acid Biosynthesis
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: JACOBSON, PRICE, HOLMAN & STERN, PLLC
SYNTE: The Jenner Building, 400 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,028
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/790,462
FILING DATE: 29-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: D. Douglas Price
REGISTRATION NUMBER: 24,514
REFERENCE/DOCKET NUMBER: 1418/P57452052
TELEPHONE: (202) 638-6666
TELEFAX: (202) 39305350
TELEX: RCA 248593 IDEA UR
INFORMATION FOR SEQ ID NO: 23:
SEQUENCE CHARACTERISTICS:
LENGTH: 1227 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-09-385-028-23

Query Match 85.6%; Score 15.4; DB 4; Length 1227;
Best Local Similarity 94.1%; Pred. No. 78;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCAGTCGACCGC 17
|||||

Db 83 GCGCGCAGTCGACCGC 67

RESULT 4
US-09-385-028-1/C
Sequence 1, Application US/09385028
Patent No. 6232106

GENERAL INFORMATION:
APPLICANT: Susan E. Jensen
APPLICANT: Kwame A. Aldoo
APPLICANT: Ashish S. Paradar
TITLE OF INVENTION: DNA Sequence Encoding Enzymes of Clavulanic
Patent No. 6232106
TITLE OF INVENTION: Acid Biosynthesis
NUMBER OF SEQUENCES: 25
CORRESPONDENCE ADDRESS:
ADDRESSEE: JACOBSON, PRICE, HOLMAN & STERN, PLLC
SYNTE: The Jenner Building, 400 Seventh Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20004

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/385,028
FILING DATE:
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/790,462
FILING DATE: 29-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: D. Douglas Price
REGISTRATION NUMBER: 24,514
REFERENCE/DOCKET NUMBER: 1418/P57452052
TELEPHONE: (202) 638-6666
TELEFAX: (202) 39305350
TELEX: RCA 248593 IDEA UR
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 15079 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: Streptomyces clavuligerus
US-09-385-028-1

Query Match 85.6%; Score 15.4; DB 4; Length 15079;
Best Local Similarity 94.1%; Pred. No. 53;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GCGCGCAGTCGACCGC 17
|||||

Db 13851 GCGCGCAGTCGACCGC 13835

RESULT 5
US-08-804-227C-7/C
Sequence 7, Application US/08804227C
Patent No. 5876991

GENERAL INFORMATION:
APPLICANT: Dehoff, Bradley S.
APPLICANT: Kunstoss, Stuart A.
APPLICANT: Kostock, Paul R., Jr.
APPLICANT: Sutton, Kimberly L.
TITLE OF INVENTION: POLYKETIDE SYNTHASE GENES
NUMBER OF SEQUENCES: 15
CORRESPONDENCE ADDRESS:

ADDRESSEE: THOMAS G. PLANT 1501
STREET: LILLY CORPORATE CENTER
CITY: INDIANAPOLIS
STATE: IN
COUNTRY: USA
ZIP: 46285
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: ASCII(DOS) Text only
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/804,227C
FILING DATE: February 21, 1997
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Plant, Thomas, G.
REGISTRATION NUMBER: 35,784
REFERENCE/DOCKET NUMBER: X-8231
TELECOMMUNICATION INFORMATION:
TELEPHONE: 417-276-2459
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 44377 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 350..14002
FEATURE:
NAME/KEY: CDS
LOCATION: 14046..20036
FEATURE:
NAME/KEY: CDS
LOCATION: 20110..31284
FEATURE:
NAME/KEY: CDS
LOCATION: 31329..36071
FEATURE:
NAME/KEY: CDS
LOCATION: 36155..41830
US-08-804-227C-7
Query Match 85.6%; Score 15.4; DB 2; Length 44377;
Best Local Similarity 94.1%; Pred. No. 45;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
UY 2 GCGGCGAGTCGACCGGC 18
DB 37671 GCGGCGAGTCGTCGCGC 37655
RESULT 6
US-08-804-198-1/C
Sequence 1, Application US/08804198
Patent No. 5945320
GENERAL INFORMATION:
APPLICANT: Burgett, Stanley G.
APPLICANT: Kuhnstoss, Stuart A.
APPLICANT: Rao, Nagaraja R.
APPLICANT: Richardson, Mark A.
APPLICANT: Rostek, Paul R., Jr.
TITLE OF INVENTION: PLATENOLIDE SYNTHASE GENE
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: PAUL R. CANTRELL 1138
STREET: LILLY CORPORATE CENTER
CITY: INDIANAPOLIS
STATE: IN
COUNTRY: USA
ZIP: 46285

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: Macintosh 7.0
SOFTWARE: Microsoft Word 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/804,198
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: CANTRELL, PAUL R.
REGISTRATION NUMBER: 36,470
REFERENCE/DOCKET NUMBER: P9113
TELECOMMUNICATION INFORMATION:
TELEPHONE: 317-276-3885
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 44377 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 350..14002
FEATURE:
NAME/KEY: CDS
LOCATION: 14046..20036
FEATURE:
NAME/KEY: CDS
LOCATION: 20110..31284
FEATURE:
NAME/KEY: CDS
LOCATION: 31329..36071
FEATURE:
NAME/KEY: CDS
LOCATION: 36155..41830
US-08-804-198-1
Query Match 85.6%; Score 15.4; DB 2; Length 44377;
Best Local Similarity 94.1%; Pred. No. 45;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
UY 2 GCGGCGAGTCGACCGGC 18
DB 37671 GCGGCGAGTCGTCGCGC 37655
RESULT 7
US-09-018-635-3B
Sequence 3B, Application US/09018635
Patent No. 6297356
GENERAL INFORMATION:
APPLICANT: de Lange, Titia
APPLICANT: Broccoli, Dominique
APPLICANT: Smogorzewska, Agata
TITLE OF INVENTION: TELOMERE REPEAT BINDING FACTOR AND
TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC USE THEREOF
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: KLAUBER & JACKSON
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/018,635

LOCATION: (1)...(706)
OTHER INFORMATION: n = any nucleotide
US-09-470-191-60

Query Match 82.2%; Score 14.8; DB 4; Length 706;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCGCGCAGTCGACCGC 18
11111111111111111111
DB 121 GCGCGCAGTCGACCGC 104

RESULT 11
US-08-471-033-18
Sequence 18, Application US/08471033
Patent No. 5770696

GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Koziele, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalin M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5770696el Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,033
FILING DATE:
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: P-40,403
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV7 - SOLV3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8582
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 2004 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: misc_feature
LOCATION: 1..2004

OTHER INFORMATION: /note="Maize optimized DNA
OTHER INFORMATION: sequence for VIP1(a) 80 kd protein from AB78"
US-08-471-033-18

Query Match 82.2%; Score 14.8; DB 1; Length 2004;
Best Local Similarity 88.9%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCGCGCAGTCGACCGC 18
11111111111111111111
DB 844 GCGCGCAGTCGACCGC 861

RESULT 12
US-08-471-044-18
Sequence 18, Application US/08471044
Patent No. 5840868

GENERAL INFORMATION:
APPLICANT: Warren, Gregory W
APPLICANT: Koziele, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalin M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5840868el Pesticidal Proteins and Strains
NUMBER OF SEQUENCES: 50
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: NY
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/471,044
FILING DATE: 06-JUN-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/464,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/414,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Pace, Gary M.
REGISTRATION NUMBER: 40,403
REFERENCE/DOCKET NUMBER: CGC 1695/CIP3/DIV6 - SOLV3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 919-541-8582
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 2004 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO

TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..2004
OTHER INFORMATION: /note="Maize optimized DNA
US-08-471-046A-18
OTHER INFORMATION: sequence for VIP1(a) 80 Kd protein from AB78"

Query Match 82.2% Score 14.8; DB 2; Length 2004;
Best Local Similarity 88.9%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCGAGTCGACCGC 18
|||||
Db 844 GCGCGCGAGTCGACCGC 861

RESULT 15
US-08-470-566B-18
Sequence 18, Application US/08470566B
Patent No. 5872212
GENERAL INFORMATION:
APPLICANT: Warren, Gregory M
APPLICANT: Koziel, Michael G
APPLICANT: Mullins, Martha A
APPLICANT: Nye, Gordon J
APPLICANT: Carr, Brian
APPLICANT: Desai, Nalini M
APPLICANT: Kostichka, N. Kristy
APPLICANT: Duck, Nicholas B
APPLICANT: Estruch, Juan J
TITLE OF INVENTION: No. 5872212e1 Pesticidal proteins and strains
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: No. 5872212artis Corporation
STREET: 3054 Cornwallis Road
CITY: Research Triangle Park
STATE: NC
COUNTRY: USA
ZIP: 27709
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30B
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/470,566B
FILING DATE: 06-JUN-1995
CLASSIFICATION: 530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/463,483
FILING DATE: 05-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/314,594
FILING DATE: 09-SEP-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/218,018
FILING DATE: 23-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/037,057
FILING DATE: 25-MAR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Meigs, J. Timothy
REGISTRATION NUMBER: 38,241
REFERENCE/DOCKET NUMBER: GCG1695/CIP3/DIV4 - SOLV4
TELEPHONE: 919-541-8587
TELEFAX: 919-541-8689
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:

LENGTH: 2004 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
HYPOTHETICAL: NO
ANTI-SENSE: NO
FEATURE:
NAME/KEY: misc.feature
LOCATION: 1..2004
OTHER INFORMATION: /note="Maize optimized DNA
US-08-470-566B-18
OTHER INFORMATION: sequence for VIP1(a) 80 Kd protein from AB78"

Query Match 82.2% Score 14.8; DB 2; Length 2004;
Best Local Similarity 88.9%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGCGAGTCGACCGC 18
|||||
Db 844 GCGCGCGAGTCGACCGC 861

Search completed: February 18, 2003, 04:47:22
Job time: 1953.22 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 17, 2003, 21:30:48 ; Search time 96.2091 Seconds
(without alignments)
95.291 Million cell updates/sec

Title: US-09-362-485-25
Perfect score: 18
Sequence: 1 GCGCGCAGTCCAGCCGCG 18

Scoring table:
IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 424239 seqs, 25461826 residues
Total number of hits satisfying chosen parameters: 848478

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/prodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/prodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/prodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/prodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/prodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/prodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/prodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/prodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/prodata/2/pubpna/US09_NEW_PUB.seq:*
10: /cgn2_6/prodata/2/pubpna/US09_PUBCOMB.seq:*
11: /cgn2_6/prodata/2/pubpna/US10_NEW_PUB.seq:*
12: /cgn2_6/prodata/2/pubpna/US10_PUBCOMB.seq:*
13: /cgn2_6/prodata/2/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/prodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	16.4	91.1	1520	9 US-10-087-667-4	Sequence 4, Appl1
2	15.4	85.6	1852	10 US-09-815-242-7957	Sequence 7957, Ap
3	14.8	82.2	135	10 US-09-912-962-38	Sequence 38, Appl
4	14.8	82.2	255	10 US-09-923-876-2324	Sequence 2324, Ap
5	14.8	82.2	615	10 US-09-974-300-2123	Sequence 123, Ap
6	14.8	82.2	843	10 US-09-917-800A-1508	Sequence 1508, Ap
7	14.8	82.2	1143	10 US-09-818-564-1	Sequence 1, Appl1
8	14.8	82.2	1377	9 US-09-738-626-1803	Sequence 1803, Ap
9	14.8	82.2	1623	9 US-09-712-363-23	Sequence 23, Appl
10	14.8	82.2	2073	9 US-10-068-059-9	Sequence 9, Appl1
11	14.8	82.2	2119	10 US-09-912-962-28	Sequence 28, Appl
12	14.8	82.2	2130	9 US-10-068-059-7	Sequence 7, Appl1
13	14.8	82.2	2175	9 US-10-068-059-11	Sequence 11, Appl
14	14.8	82.2	2241	9 US-10-068-059-5	Sequence 5, Appl1
15	14.4	80.0	42	9 US-09-996-073-16	Sequence 16, Appl
16	14.4	80.0	42	9 US-09-996-073-17	Sequence 17, Appl
17	14.4	80.0	42	10 US-09-231-235-37	Sequence 37, Appl
18	14.4	80.0	42	10 US-09-231-235-38	Sequence 38, Appl
19	14.4	80.0	42	10 US-09-797-518A-37	Sequence 37, Appl

C	20	14.4	80.0	42	10	US-09-797-518A-38	Sequence 38, Appl
C	21	14.4	80.0	167	10	US-09-815-242-1261	Sequence 1261, Ap
C	22	14.4	80.0	1806	10	US-09-815-242-4015	Sequence 4015, Ap
C	23	13.8	76.7	357	9	US-09-738-626-2961	Sequence 2961, Ap
C	24	13.8	76.7	1032	10	US-09-815-242-4010	Sequence 4010, Ap
C	25	13.8	76.7	1302	10	US-09-815-242-7961	Sequence 7961, Ap
C	26	13.8	76.7	1729	10	US-09-917-800A-1581	Sequence 1581, Ap
C	27	13.8	76.7	1730	10	US-09-814-772A-19	Sequence 19, Appl
C	28	13.8	76.7	1815	10	US-09-758-269-13	Sequence 13, Appl
C	29	13.8	76.7	1829	10	US-09-822-849A-277	Sequence 277, App
C	30	13.8	76.7	2570	10	US-09-057-951-1	Sequence 1, Appl1
C	31	13.8	76.7	2570	12	US-10-105-150-1	Sequence 1, Appl1
C	32	13.8	76.7	3123	9	US-09-905-558C-5	Sequence 5, Appl1
C	33	13.8	76.7	13842	9	US-09-860-846-30	Sequence 30, Appl
C	34	13.8	76.7	13842	10	US-09-861-289-30	Sequence 30, Appl
C	35	13.8	76.7	36778	9	US-09-860-846-5	Sequence 5, Appl1
C	36	13.8	76.7	36778	9	US-09-861-289-5	Sequence 5, Appl1
C	37	13.8	76.7	3309400	9	US-09-738-626-1	Sequence 1, Appl1
C	38	13.4	74.4	170	10	US-09-878-574-9492	Sequence 9492, Ap
C	39	13.4	74.4	258	12	US-10-062-254-219	Sequence 2089, Ap
C	40	13.4	74.4	859	12	US-09-923-876-2089	Sequence 219, App
C	41	13.4	74.4	1086	9	US-09-938-842A-1856	Sequence 1856, Ap
C	42	13.4	74.4	1335	10	US-09-974-300-225	Sequence 225, App
C	43	13.4	74.4	1420	10	US-09-779-144A-3	Sequence 3, Appl1
C	44	13.4	74.4	6693	9	US-10-071-766-135	Sequence 135, App
C	45	13.4	74.4	6700	10	US-09-759-152-3	Sequence 3, Appl1

ALIGNMENTS

RESULT 1
US-10-087-667-4
; Sequence 4, Application US/10087667
; Publication No. US20020194629A1
; GENERAL INFORMATION:
; APPLICANT: Bramley, John A.
; APPLICANT: Plant, Karen I.
; APPLICANT: Kerr, David
; TITLE OF INVENTION: TREATMENT OF STAPHYLOCOCCUS INFECTIONS
; FILE REFERENCE: Mastitis
; CURRENT APPLICATION NUMBER: US/10/087,667
; CURRENT FILING DATE: 2002-02-28
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 4
; LENGTH: 1520
; TYPE: DNA
; ORGANISM: Staphylococcus simulans
; US-10-087-667-4

Query Match 91.18; Score 16.4; DB 9; Length 1520;
Best Local Similarity 94.4%; Pred. No. 20;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GCGCGCAGTCCAGCCGCG 18
Db 1243 GCGCGCAGTCCAGCCGCG 1260

RESULT 2
US-09-815-242-7957
; Sequence 7957, Application US/09815242
; Patent No. US20020061569A1
; GENERAL INFORMATION:
; APPLICANT: Haselbeck, Robert
; APPLICANT: Ohlsen, Karl L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard

TITLE OF INVENTION: Identification of Essential Genes in
FILE REFERENCE: ELITRA.011A
CURRENT APPLICATION NUMBER: US/09/815,242
CURRENT FILING DATE: 2001-03-21
PRIOR APPLICATION NUMBER: 60/191,078
PRIOR FILING DATE: 2000-03-21
PRIOR APPLICATION NUMBER: 60/206,848
PRIOR FILING DATE: 2000-05-23
PRIOR APPLICATION NUMBER: 60/207,727
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: 60/242,578
PRIOR FILING DATE: 2000-10-23
PRIOR APPLICATION NUMBER: 60/253,625
PRIOR FILING DATE: 2000-11-27
PRIOR APPLICATION NUMBER: 60/257,931
PRIOR FILING DATE: 2000-12-22
PRIOR APPLICATION NUMBER: 60/269,308
PRIOR FILING DATE: 2001-02-16
NUMBER OF SEQ ID NOS: 14110
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7957
LENGTH: 852
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
FEATURE:
NAME/KEY: CDS
LOCATION: (1)...(852)
US-09-815-242-7957

Query Match 85.6%; Score 15.4; DB 10; Length 852;
Best Local Similarity 94.1%; Pred. No. 62;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 GGGCGCGAGTCGACCGC 17
|||||
Db 193 GGGCGCGAGTCGACCGC 209

RESULT 3
US-09-912-962-38
Sequence 38, Application US/09912962
Patent No. US20020076719A1
GENERAL INFORMATION:
APPLICANT: de Lange, Titia
Broccoli, Dominique
Smogorzewska, Agata
TITLE OF INVENTION: TELOMERE REPEAT BINDING FACTOR AND
DIAGNOSTIC AND THERAPEUTIC USE THEREOF
NUMBER OF SEQUENCES: 52
CORRESPONDENCE ADDRESS:
ADDRESSEE: KLAUBER & JACKSON
STREET: 411 Hackensack Avenue
CITY: Hackensack
STATE: New Jersey
COUNTRY: USA
ZIP: 07601
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/912,962
FILING DATE: 25-Jul-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/018,635
FILING DATE: 04-FEB-1998
ATTORNEY/AGENT INFORMATION:
NAME: David A. Jackson
REGISTRATION NUMBER: 26,742
REFERENCE/DOCKET NUMBER: 600-1-142 CIP1

TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-487-5800
TELEFAX: 201-343-1684
TELEX: 133521
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 135 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: cDNA
DESCRIPTION: TRF2
HYPOTHETICAL: NO
ORIGINAL SOURCE:
ORGANISM: mouse
SEQUENCE DESCRIPTION: SEQ ID NO: 38
US-09-912-962-38

Query Match 82.2%; Score 14.8; DB 10; Length 135;
Best Local Similarity 88.9%; Pred. No. 1.6e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GGGCGCGAGTCGACCGC 18
|||||
Db 39 GGGCGCGAGTCGACCGC 56

RESULT 4
US-09-923-876-2324/C
Sequence 2324, Application US/09923876
Patent No. US20020013958A1
GENERAL INFORMATION:
APPLICANT: Laligudi, Raghunath V.
APPLICANT: Kamigaki, Laura Y. (llo)
APPLICANT: Sherman, Bradley K.
TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN SEEDLING
FILE REFERENCE: PL-0012-1 CON
CURRENT APPLICATION NUMBER: US/09/923,876
CURRENT FILING DATE: 2001-08-06
PRIOR APPLICATION NUMBER: 09/298,329
PRIOR FILING DATE: 1999-04-21
PRIOR APPLICATION NUMBER: 60/085,331
PRIOR FILING DATE: 1998-05-05
NUMBER OF SEQ ID NOS: 6332
SOFTWARE: PEK1 Program
SEQ ID NO 2324
LENGTH: 255
TYPE: DNA
ORGANISM: Zea mays
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No. US20020013958A1 700160418H1
NAME/KEY: unsure
LOCATION: 215
OTHER INFORMATION: a, t, c, g, or other
US-09-923-876-2324

Query Match 82.2%; Score 14.8; DB 10; Length 255;
Best Local Similarity 88.9%; Pred. No. 1.4e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GGGCGCGAGTCGACCGC 18
|||||
Db 154 GGGCGCGAGTCGACCGC 137

RESULT 5
US-09-974-300-2123/C
Sequence 2123, Application US/09974300
Patent No. US20020146721A1
GENERAL INFORMATION:
APPLICANT: Berka, Randy M.
APPLICANT: Clausen, Ib Groth

? TITLE OF INVENTION: Methods For Monitoring Multiple Gene
? FILE REFERENCE: 10085.500-US
? CURRENT APPLICATION NUMBER: US/09/974,300
? CURRENT FILING DATE: 2001-10-05
? PRIOR APPLICATION NUMBER: 09/680,598
? PRIOR FILING DATE: 2000-10-06
? PRIOR APPLICATION NUMBER: 60/279,526
? PRIOR FILING DATE: 2001-03-27
? NUMBER OF SEQ ID NOS: 8481
? SOFTWARE: FastSeq for Windows Version 4.0
? SEQ ID NO 2123
? LENGTH: 615
? TYPE: DNA
? ORGANISM: Bacillus licheniformis
US-09-974-300-2123

Query Match 82.2%; Score 14.8; DB 10; Length 615;
Best Local Similarity 88.9%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCGCGCAGTCGACCGGC 18
||||| 1 |||||
Db 502 GCGCGCAGTCGACCGGC 485

RESULT 6
US-09-917-800A-1508/C
? Sequence 1508, Application US/09917800A
? Patent No. US20020119462A1
? GENERAL INFORMATION:
? APPLICANT: Mendrick, Donna
? APPLICANT: Porter, Mark
? APPLICANT: Johnson, Kory
? APPLICANT: Castle, Arthur
? APPLICANT: Elashoff, Michael
? APPLICANT: Gene Logic, Inc.
? TITLE OF INVENTION: Molecular Toxicology Modeling
? FILE REFERENCE: 44921-5038-US
? CURRENT APPLICATION NUMBER: US/09/917,800A
? CURRENT FILING DATE: 2001-07-31
? PRIOR APPLICATION NUMBER: US 60/222,040
? PRIOR FILING DATE: 2000-07-31
? PRIOR APPLICATION NUMBER: US 60/222,880
? PRIOR FILING DATE: 2000-11-02
? PRIOR APPLICATION NUMBER: US 60/290,029
? PRIOR FILING DATE: 2001-05-11
? PRIOR APPLICATION NUMBER: US 60/290,645
? PRIOR FILING DATE: 2001-05-15
? PRIOR APPLICATION NUMBER: US 60/292,336
? PRIOR FILING DATE: 2001-05-22
? PRIOR APPLICATION NUMBER: US 60/295,798
? PRIOR FILING DATE: 2001-06-06
? PRIOR APPLICATION NUMBER: US 60/297,457
? PRIOR FILING DATE: 2001-06-13
? PRIOR APPLICATION NUMBER: US 60/298,884
? PRIOR FILING DATE: 2001-06-19
? PRIOR APPLICATION NUMBER: US 60/303,459
? PRIOR FILING DATE: 2001-07-09
? NUMBER OF SEQ ID NOS: 1740
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 1508
? LENGTH: 843
? TYPE: DNA
? ORGANISM: Rattus norvegicus
? FEATURE:
? OTHER INFORMATION: Genbank Accession No. US20020119462A1 X62145
US-09-917-800A-1508

Query Match 82.2%; Score 14.8; DB 10; Length 843;
Best Local Similarity 88.9%; Pred. No. 1.2e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCGCGCAGTCGACCGGC 18
||||| 1 |||||
Db 35 GCGCGCAGTCGACCGGC 18

RESULT 7
US-09-818-564-1
? Sequence 1, Application US/09818564
? Patent No. US20020137151A1
? GENERAL INFORMATION:
? APPLICANT: MERKAM, MURIEL
? APPLICANT: GUYONVARCH, ARMEIL
? APPLICANT: MARX, ACHIM
? TITLE OF INVENTION: A PROCESS FOR THE FERMENTATIVE PREPARATION OF METABOLIC
? TITLE OF INVENTION: PRODUCTS AND FOR THE NUCLEOTIDE SEQUENCES ENCODING FOR
? FILE REFERENCE: 21123/278411/MAS
? CURRENT APPLICATION NUMBER: US/09/818,564
? CURRENT FILING DATE: 2001-04-28
? PRIOR APPLICATION NUMBER: 09/373,731
? PRIOR FILING DATE: 1999-08-13
? NUMBER OF SEQ ID NOS: 8
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 1
? LENGTH: 1143
? TYPE: DNA
? ORGANISM: Corynebacterium melassecola
? FEATURE:
? NAME/KEY: CDS
? LOCATION: (338)..(937)
? OTHER INFORMATION: ATCC 17965
US-09-818-564-1

Query Match 82.2%; Score 14.8; DB 10; Length 1143;
Best Local Similarity 88.9%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCGCGCAGTCGACCGGC 18
||||| 1 |||||
Db 602 GCGCGCAGTCGACCGGC 619

RESULT 8
US-09-738-626-1803/C
? Sequence 1803, Application US/09738626
? Publication No. US20020197605A1
? GENERAL INFORMATION:
? APPLICANT: NAKAGAWA, SATOSHI
? APPLICANT: MIZOGUCHI, HIROSHI
? APPLICANT: ANDO, SEIKO
? APPLICANT: HAYASHI, MIKIRO
? APPLICANT: OCHIAI, KEIKO
? APPLICANT: YOKOI, HARUHIKO
? APPLICANT: TATEISHI, NAOKO
? APPLICANT: SENOH, AKIHIRO
? APPLICANT: IKEDA, MASATO
? APPLICANT: OZAKI, AKIO
? TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
? FILE REFERENCE: 249-125
? CURRENT APPLICATION NUMBER: US/09/738,626
? CURRENT FILING DATE: 2000-12-18
? PRIOR APPLICATION NUMBER: JP 99/377484
? PRIOR FILING DATE: 1999-12-16
? PRIOR APPLICATION NUMBER: JP 00/159162
? PRIOR FILING DATE: 2000-04-07
? PRIOR APPLICATION NUMBER: JP 00/280988
? PRIOR FILING DATE: 2000-08-03
? NUMBER OF SEQ ID NOS: 7059
? SOFTWARE: PatentIn Ver. 3.0
? SEQ ID NO 1803
? LENGTH: 1377
? TYPE: DNA
? ORGANISM: Corynebacterium glutamicum

US-09-738-626-1803

Query Match 82.2%; Score 14.8; DB 9; Length 1377;
Best Local Similarity 88.9%; Pred. No. 1,1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGGAGTTCGACCGGC 18
||||| ||| ||| ||| ||| |||

DB 642 GCGCGTGAATTCGACCGGC 625

RESULT 9

US-09-712-363-23

; Sequence 23, Application US/09712363
; Patent No. US20020164588A1
; GENERAL INFORMATION:
; APPLICANT: Eisenberg, David
; APPLICANT: Rolstein, Sergio H.
; APPLICANT: Marcotte, Edward M.
; TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
; TITLE OF INVENTION: INTERACTIONS OF PROTEINS BY COMPARATIVE ANALYSIS
; FILE REFERENCE: 07419-032001
; CURRENT FILING DATE: US/09/712,363
; PRIOR APPLICATION NUMBER: PCT/US00/02246
; PRIOR FILING DATE: 2000-01-28
; PRIOR APPLICATION NUMBER: 60/179,531
; PRIOR FILING DATE: 2000-02-01
; PRIOR APPLICATION NUMBER: 60/117,844
; PRIOR FILING DATE: 1999-01-29
; PRIOR APPLICATION NUMBER: 60/118,206.
; PRIOR FILING DATE: 1999-02-01
; PRIOR APPLICATION NUMBER: 60/126,593
; PRIOR FILING DATE: 1999-03-26
; PRIOR APPLICATION NUMBER: 60/134,093
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/134,092
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 60/165,124
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 60/165,086
; PRIOR FILING DATE: 1999-11-12
; NUMBER OF SEQ ID NOS: 292
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 23
; LENGTH: 1623
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
US-09-712-363-23

Query Match 82.2%; Score 14.8; DB 9; Length 1623;
Best Local Similarity 88.9%; Pred. No. 1e+02;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGGAGTTCGACCGGC 18
||||| ||| ||| ||| ||| |||

DB 1291 GCGGACGAGCGACCGGC 1308

RESULT 10
US-10-068-059-9

; Sequence 9, Application US/10068059
; Patent No. US20020155434A1
; GENERAL INFORMATION:
; APPLICANT: Mizzen, Lee A.
; APPLICANT: Hongwel, Liu
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
; FILE REFERENCE: 12071-017002
; CURRENT APPLICATION NUMBER: US/10/068,059
; CURRENT FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/266,733
; PRIOR FILING DATE: 2001-02-05

; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 2073
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2070)
; OTHER INFORMATION: Nucleic acids encoding fusion protein
US-10-068-059-9

QY 1 GCGCGGAGTTCGACCGGC 18
||||| ||| ||| ||| ||| |||

DB 1741 GCGGACGAGCGACCGGC 1758

Query Match 82.2%; Score 14.8; DB 9; Length 2073;
Best Local Similarity 88.9%; Pred. No. 98;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGGAGTTCGACCGGC 18
||||| ||| ||| ||| ||| |||

DB 1741 GCGGACGAGCGACCGGC 1758

RESULT 11

US-09-912-962-28

; Sequence 28, Application US/09912962
; Patent No. US20020076719A1
; GENERAL INFORMATION:
; APPLICANT: de Lange, Tilia
; Broccoli, Dominique
; Smogorzewska, Agata
; TITLE OF INVENTION: TELOMERE REPEAT BINDING FACTOR AND
; DIAGNOSTIC AND THERAPEUTIC USE THEREOF
; NUMBER OF SEQUENCES: 52
; CORRESPONDENCE ADDRESS:
; ADDRESSER: KLAUBER & JACKSON
; STREET: 411 Hackensack Avenue
; CITY: Hackensack
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07601
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-105/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/912,962
; FILING DATE: 25 Jul-2001
; CLASSIFICATION: - (unknown) -
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/018,635
; FILING DATE: 04-FEB-1998
; ATTORNEY/AGENT INFORMATION:
; NAME: David A. Jackson
; REGISTRATION NUMBER: 26,742
; REFERENCE/DOCKET NUMBER: 600-1-142 CIP1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 201-487-5800
; TELEFAX: 201-343-1684
; TELEX: 133521
; INFORMATION FOR SEQ ID NO: 28:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2119 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; DESCRIPTION: TRF2
; HYPOTHETICAL: NO
; ORIGINAL SOURCE:
; ORGANISM: mouse
; SEQUENCE DESCRIPTION: SEQ ID NO: 28:
US-09-912-962-28

Query Match 82.2%; Score 14.8; D: 10; Length 2119;
Best Local Similarity 88.9%; Pred. No. 98;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGGAGTGCAGCCGCC 18
||||| 1111 111 111
Db 104 GCGCGGAGGCGAGCCGCC 121

RESULT 12
US-10-068-059-7
; Sequence 7, Application US/10068059
; Patent No. US20020155434A1
; GENERAL INFORMATION:

; APPLICANT: Mizzen, Lee A.
; APPLICANT: Hongwei, Liu
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
; FILE REFERENCE: 12071-017002
; CURRENT APPLICATION NUMBER: US/10/068,059
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/266,733
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2130
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2127)
; OTHER INFORMATION: Nucleic acids encoding fusion protein

US-10-068-059-7
Query Match 82.2%; Score 14.8; DB 9; Length 2130;
Best Local Similarity 88.9%; Pred. No. 98;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGGAGTGCAGCCGCC 18
||||| 1111 11111111
Db 1798 GCGGAGGCGAGCCGCC 1815

RESULT 13
US-10-068-059-11
; Sequence 11, Application US/10068059
; Patent No. US20020155434A1
; GENERAL INFORMATION:

; APPLICANT: Mizzen, Lee A.
; APPLICANT: Hongwei, Liu
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
; FILE REFERENCE: 12071-017002
; CURRENT APPLICATION NUMBER: US/10/068,059
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/266,733
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 2175
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2172)
; OTHER INFORMATION: Nucleic acids encoding fusion protein

US-10-068-059-11
Query Match 82.2%; Score 14.8; DB 9; Length 2175;
Best Local Similarity 88.9%; Pred. No. 98;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGGAGTGCAGCCGCC 18
||||| 1111 11111111
Db 1843 GCGGAGGCGAGCCGCC 1860

RESULT 14
US-10-068-059-5
; Sequence 5, Application US/10068059
; Patent No. US20020155434A1
; GENERAL INFORMATION:

; APPLICANT: Mizzen, Lee A.
; APPLICANT: Hongwei, Liu
; APPLICANT: Siegel, Marvin
; TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
; FILE REFERENCE: 12071-017002
; CURRENT APPLICATION NUMBER: US/10/068,059
; PRIOR FILING DATE: 2002-06-04
; PRIOR APPLICATION NUMBER: US 60/266,733
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 12
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2241
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2238)
; OTHER INFORMATION: Nucleic acids encoding fusion protein

US-10-068-059-5
Query Match 82.2%; Score 14.8; DB 9; Length 2241;
Best Local Similarity 88.9%; Pred. No. 97;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GCGCGGAGTGCAGCCGCC 18
||||| 1111 11111111
Db 1909 GCGGAGGCGAGCCGCC 1926

RESULT 15
US-09-996-073-16
; Sequence 16, Application US/09996073
; Publication No. US20030003565A1
; GENERAL INFORMATION:

; APPLICANT: IMBENSKY JR., Thomas W.
; APPLICANT: CASMI, Melai
; APPLICANT: SAUTER, Sydille
; TITLE OF INVENTION: FUNCTIONAL LENTIVIRAL VECTOR FROM
; FILE REFERENCE: 2302-1642 / 1642,002
; CURRENT APPLICATION NUMBER: US/09/996,073
; CURRENT FILING DATE: 2001-11-27
; NUMBER OF SEQ ID NOS: 34
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 16
; LENGTH: 42
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: FIV2 primer

US-09-996-073-16
Query Match 80.0%; Score 14.4; DB 9; Length 42;
Best Local Similarity 93.8%; Pred. No. 3e+02; 1; Indels 0; Gaps 0;

QY 3 GCGGAGTGCAGCCGCC 18
||||| 11111111 111
Db 14 CCGGAGTGCAGTGC 29

Search completed: February 18, 2003, 07:11:26
Job time : 99.2091 secs
